LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	AUG 10	Time limit for inactive STN sessions doubles to 40 minutes
NEWS 3	AUG 18	COMPENDEX indexing changed for the Corporate Source (CS) field
NEWS 4	AUG 24	ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS 5	AUG 24	CA/CAplus enhanced with legal status information for U.S. patents
NEWS 6	SEP 09	50 Millionth Unique Chemical Substance Recorded in CAS REGISTRY
NEWS 7	SEP 11	WPIDS, WPINDEX, and WPIX now include Japanese FTERM thesaurus
NEWS 8	OCT 21	Derwent World Patents Index Coverage of Indian and Taiwanese Content Expanded
NEWS 9	OCT 21	Derwent World Patents Index enhanced with human translated claims for Chinese Applications and Utility Models
NEWS 10	NOV 23	Addition of SCAN format to selected STN databases
NEWS 11	NOV 23	Annual Reload of IFI Databases
NEWS 12	DEC 01	FRFULL Content and Search Enhancements
NEWS 13	DEC 01	DGENE, USGENE, and PCTGEN: new percent identity feature for sorting BLAST answer sets
NEWS 14	DEC 02	Derwent World Patent Index: Japanese FI-TERM thesaurus added
NEWS 15	DEC 02	PCTGEN enhanced with patent family and legal status display data from INPADOCDB
NEWS 16	DEC 02	USGENE: Enhanced coverage of bibliographic and sequence information
NEWS 17	DEC 21	New Indicator Identifies Multiple Basic Patent Records Containing Equivalent Chemical Indexing in CA/CAplus
NEWS 18	JAN 12	Match STN Content and Features to Your Information Needs, Quickly and Conveniently
NEWS 19	JAN 25	Annual Reload of MEDLINE database
NEWS 20	FEB 16	STN Express Maintenance Release, Version 8.4.2, Is Now Available for Download
NEWS 21	FEB 16	Derwent World Patents Index (DWPI) Revises Indexing of Author Abstracts
NEWS 22	FEB 16	New FASTA Display Formats Added to USGENE and PCTGEN
NEWS 23	FEB 16	INPADOCDB and INPAFAMDB Enriched with New Content and Features
NEWS 24	FEB 16	INSPEC Adding Its Own IPC codes and Author's E-mail Addresses
NEWS 25	APR 02	CAS Registry Number Crossover Limits Increased to 500,000 in Key STN Databases
NEWS 26	APR 02	PATDPAFULL: Application and priority number formats enhanced
NEWS 27	APR 02	PATDPAFULL has been enhanced with front page images
NEWS 28	APR 02	DWPI: New display format ALLSTR available
NEWS 29	APR 02	New Thesaurus Added to Derwent Databases for Smooth Sailing through U.S. Patent Codes

```
 NEWS 30  APR 02  EMBASE Adds Unique Records from MEDLINE, Expanding
                  Coverage back to 1948

 NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,
              AND CURRENT DISCOVER FILE IS DATED 15 JANUARY 2010.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN customer
  agreement.  This agreement limits use to scientific research.  Use
  for software development or design, implementation of commercial
  gateways, or use of CAS and STN data in the building of commercial
  products is prohibited and may result in loss of user privileges
  and other penalties.

* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 05:07:01 ON 07 APR 2010

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.22       0.22

FILE 'REGISTRY' ENTERED AT 05:07:13 ON 07 APR 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2010 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    5 APR 2010  HIGHEST RN 1217056-90-0
DICTIONARY FILE UPDATES:   5 APR 2010  HIGHEST RN 1217056-90-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.49       0.71

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 05:07:20 ON 07 APR 2010
```

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

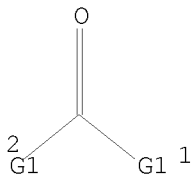
PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 05:19:04 ON 07 APR 2010
FILE 'REGISTRY' ENTERED AT 05:19:04 ON 07 APR 2010
COPYRIGHT (C) 2010 American Chemical Society (ACS)

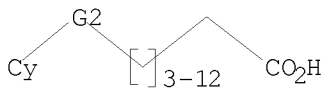
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.49	0.71

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10025947\10025947 pt VII Amended genus.str

L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR





G1 O,N

G2 O,S,N,[@1-@2]

Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 05:19:50 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   91197 TO ITERATE

  2.2% PROCESSED   2000 ITERATIONS   35 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

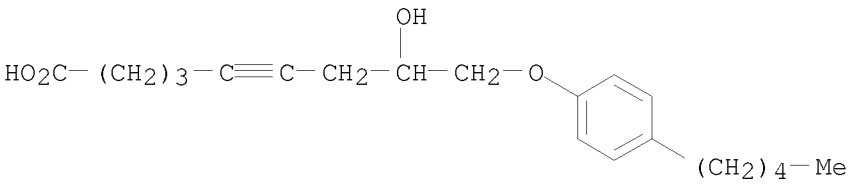
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1805965 TO 1841915
PROJECTED ANSWERS: 29522 TO 34314

L2 35 SEA SSS SAM L1

=> d scan

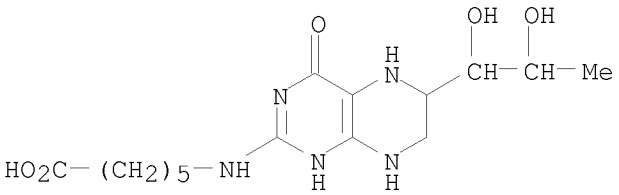
L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Nonynoic acid, 8-hydroxy-9-(4-pentylphenoxy)-
MF C20 H28 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

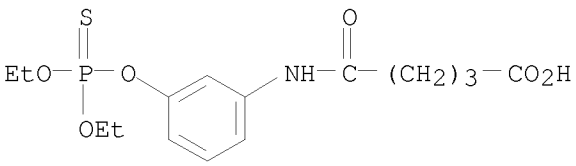
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Hexanoic acid, 6-[[6-(1,2-dihydroxypropyl)-3,4,5,6,7,8-hexahydro-4-oxo-2-pteridinyl]amino]-
MF C15 H25 N5 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanoic acid, 5-[[3-[(diethoxyphosphinothioyl)oxy]phenyl]amino]-5-oxo-
MF C15 H22 N O6 P S

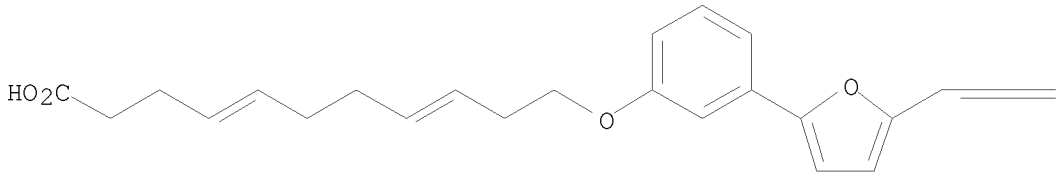


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

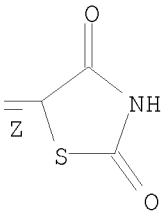
L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 4,8-Undecadienoic acid, 11-[3-[5-[(Z)-(2,4-dioxo-5-thiazolidinylidene)methyl]-2-furanyl]phenoxy]-
MF C25 H25 N O6 S

Double bond geometry as described by E or Z.

PAGE 1-A



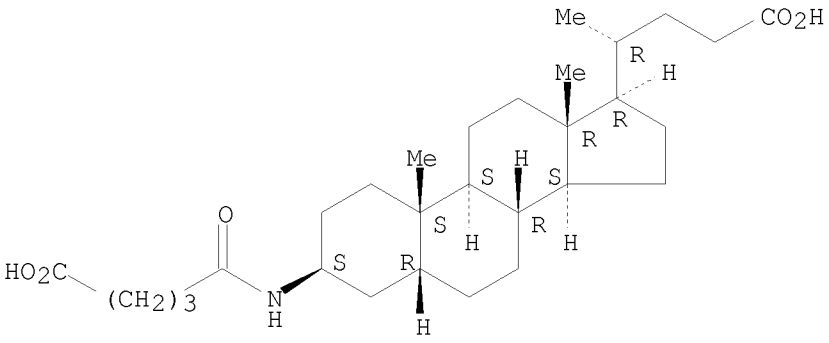
PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

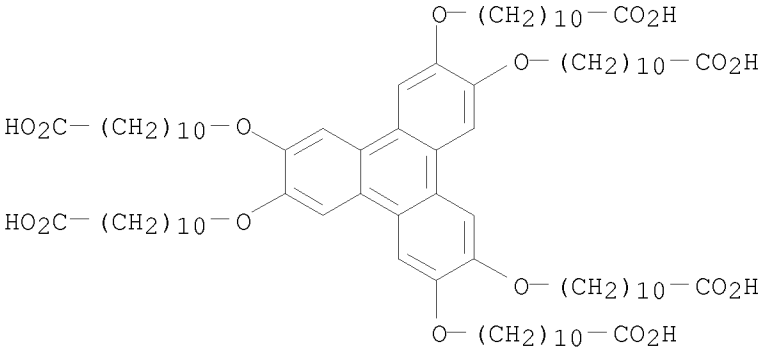
L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Cholan-24-oic acid, 3-[(4-carboxy-1-oxobutyl)amino]-, potassium salt (1:2), (3β,5β)-
MF C29 H47 N O5 . 2 K

Absolute stereochemistry.



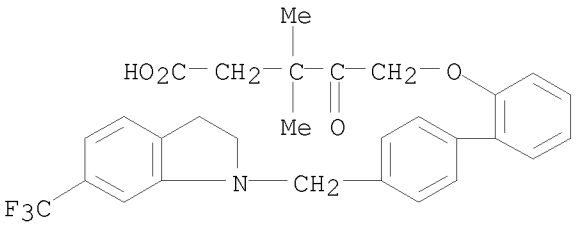
●2 K

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Undecanoic acid, 11,11',11'',11''',11'''',11'''''-[2,3,6,7,10,11-triphenylenehexaylhexakis(oxy)]hexakis-
MF C84 H132 O18



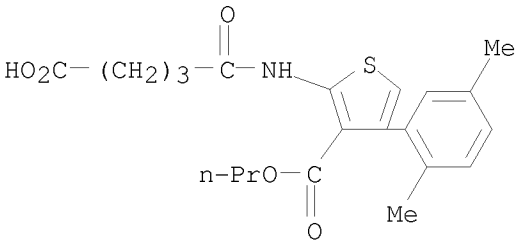
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanoic acid, 5-[[4'-[[2,3-dihydro-6-(trifluoromethyl)-1H-indol-1-yl]methyl][1,1'-biphenyl]-2-yl]oxy]-3,3-dimethyl-4-oxo-
MF C29 H28 F3 N O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

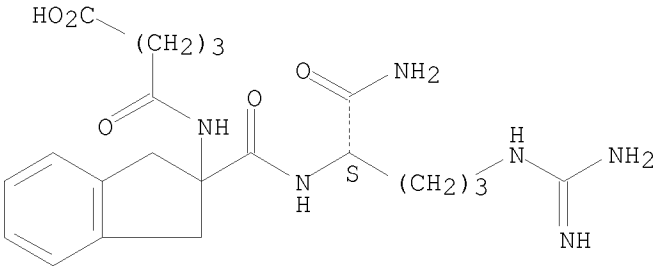
L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Thiophenecarboxylic acid, 2-[(4-carboxy-1-oxobutyl)amino]-4-(2,5-dimethylphenyl)-, 3-propyl ester
MF C21 H25 N O5 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanoic acid, 5-[[2-[[[(1S)-1-(aminocarbonyl)-4-[(aminoiminomethyl)amino]butyl]amino]carbonyl]-2,3-dihydro-1H-inden-2-yl]amino]-5-oxo-
MF C21 H30 N6 O5

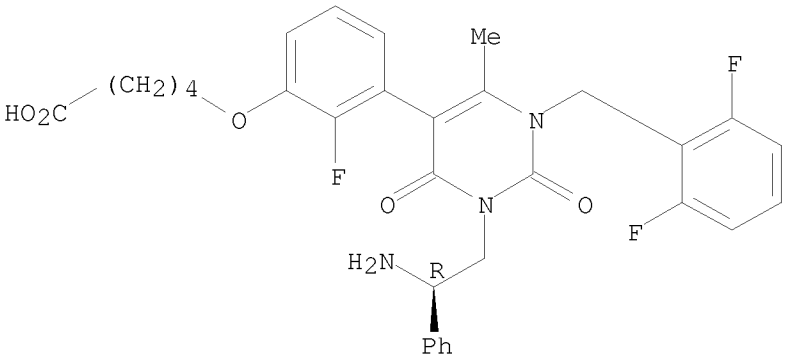
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanoic acid, 5-[3-[3-[(2R)-2-amino-2-phenylethyl]-1-[(2,6-
    difluorophenyl)methyl]-1,2,3,4-tetrahydro-6-methyl-2,4-dioxo-5-
    pyrimidinyl]-2-fluorophenoxy]-
MF C31 H30 F3 N3 O5
CI COM

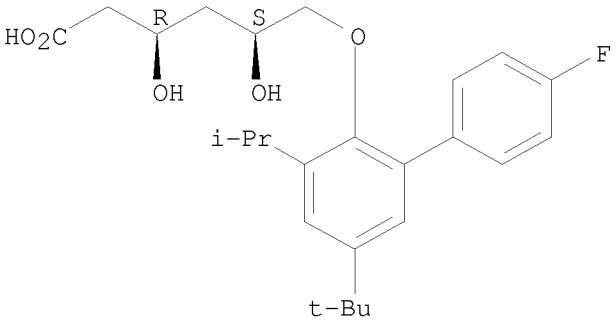
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN D-erythro-Hexonic acid, 2,4-dideoxy-6-O-[5-(1,1-dimethylethyl)-4'-fluoro-3-
    (1-methylethyl)[1,1'-biphenyl]-2-yl]-
MF C25 H33 F O5
CI COM

Absolute stereochemistry.

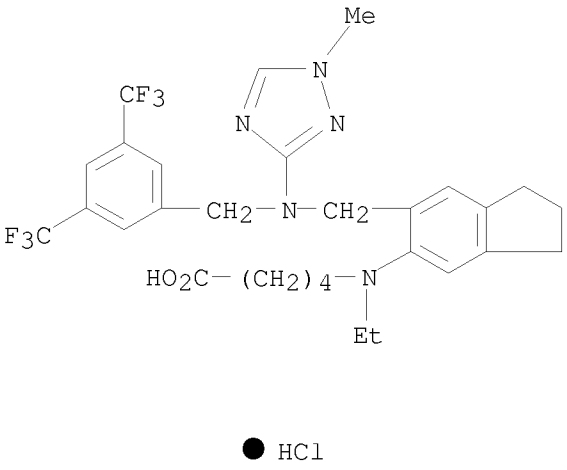


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

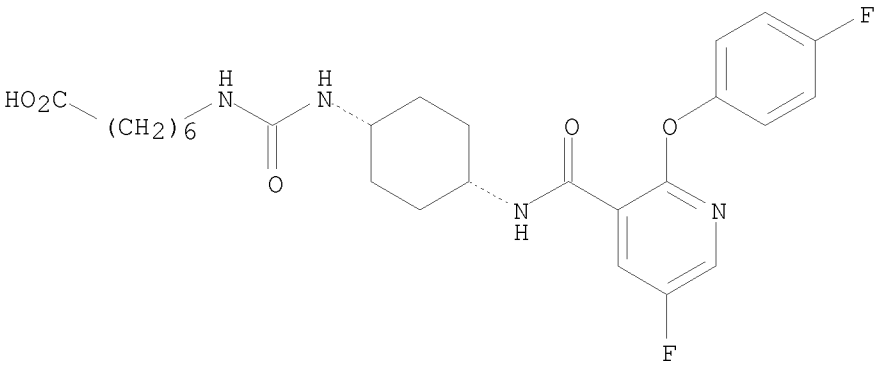
L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanoic acid, 5-[[6-[[[[3,5-bis(trifluoromethyl)phenyl]methyl](1-methyl-
    1H-1,2,4-triazol-3-yl)amino]methyl]-2,3-dihydro-1H-inden-5-yl]ethylamino]-

, hydrochloride (1:1)
MF C29 H33 F6 N5 O2 . Cl H



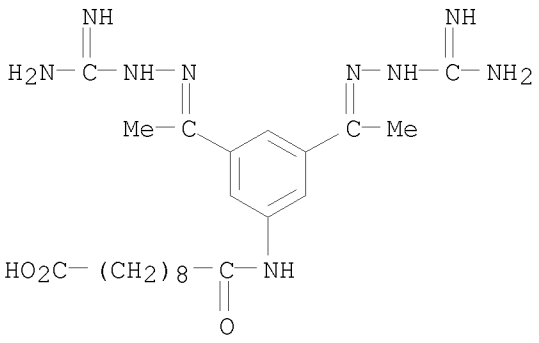
L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Heptanoic acid, 7-[[[[cis-4-[[[5-fluoro-2-(4-fluorophenoxy)-3-pyridinyl]carbonyl]amino]cyclohexyl]amino]carbonyl]amino]-
MF C26 H32 F2 N4 O5

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Decanoic acid, 10-[[3,5-bis[1-[2-(aminoiminomethyl)hydrazinylidene]ethyl]phenyl]amino]-10-oxo-, hydrochloride (1:2)
MF C22 H35 N9 O3 . 2 Cl H

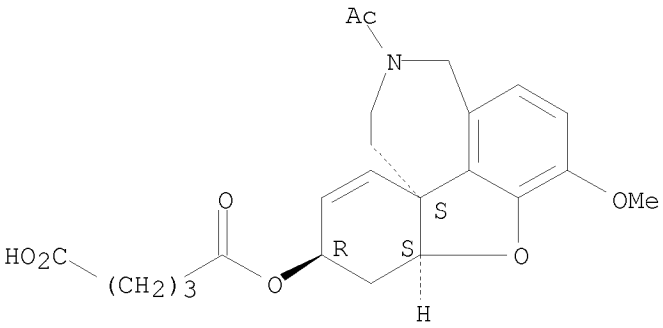


●2 HCl

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanedioic acid, 1-[(4aS,6R,8aS)-11-acetyl-4a,5,9,10,11,12-hexahydro-3-methoxy-6H-benzofuro[3a,3,2-ef][2]benzazepin-6-yl] ester
MF C23 H27 N O7

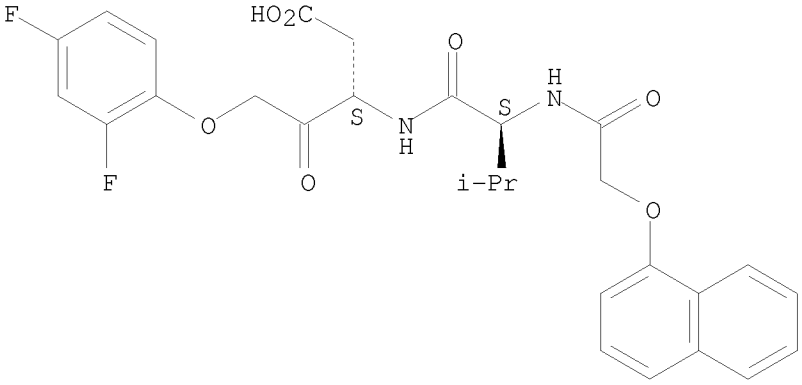
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

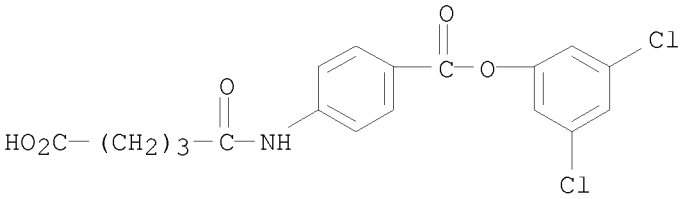
L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanoic acid, 5-(2,4-difluorophenoxy)-3-[[(2S)-3-methyl-2-[[2-(1-naphthalenyloxy)acetyl]amino]-1-oxobutyl]amino]-4-oxo-, (3S)-
MF C28 H28 F2 N2 O7

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

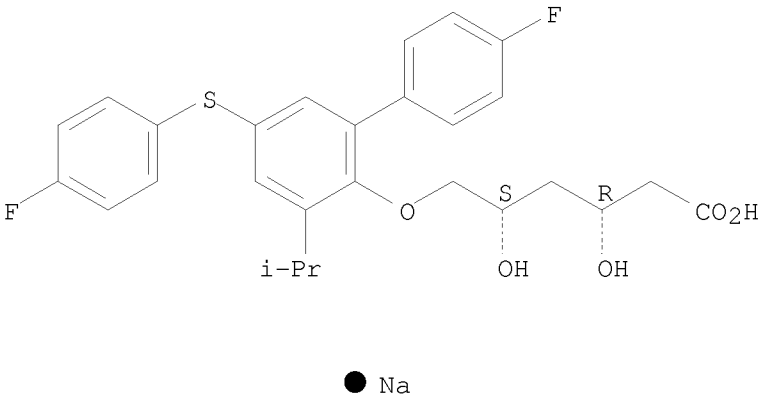
L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzoic acid, 4-[(4-carboxy-1-oxobutyl)amino]-, 1-(3,5-dichlorophenyl) ester
MF C18 H15 Cl2 N O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN D-erythro-Hexonic acid, 2,4-dideoxy-6-O-[4'-fluoro-5-[(4-fluorophenyl)thio]-3-(1-methylethyl)[1,1'-biphenyl]-2-yl]-, monosodium salt (9CI)
MF C27 H28 F2 O5 S . Na

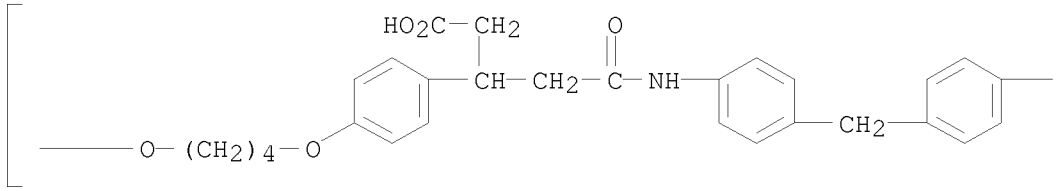
Absolute stereochemistry.



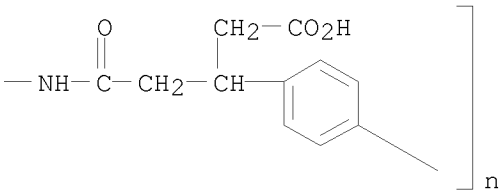
L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Poly[oxy-1,4-butanediyloxy-1,4-phenylene[1-(carboxymethyl)-3-oxo-1,3-propanediyl]imino-1,4-phenylenemethylene-1,4-phenyleneimino[3-(carboxymethyl)-1-oxo-1,3-propanediyl]-1,4-phenylene] (9CI)
MF (C39 H40 N2 O8)n
CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK

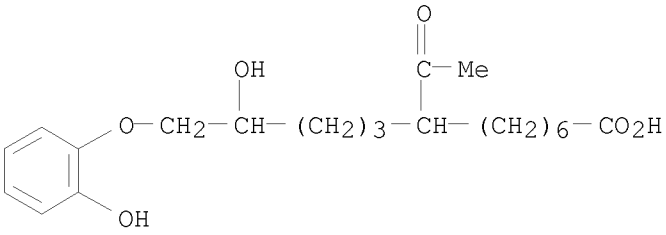
PAGE 1-A



PAGE 1-B

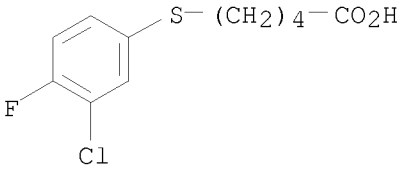


L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Tridecanoic acid, 8-acetyl-12-hydroxy-13-(2-hydroxyphenoxy)-
MF C21 H32 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

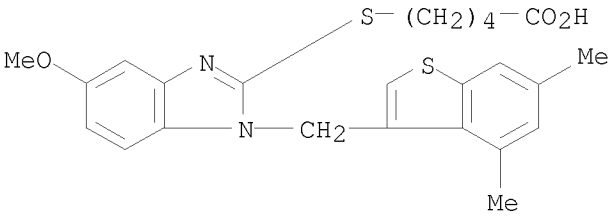
L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanoic acid, 5-[(3-chloro-4-fluorophenyl)thio]-
MF C11 H12 Cl F O2 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

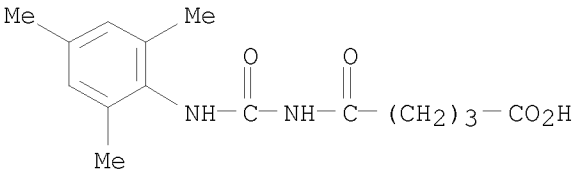
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):15

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanoic acid, 5-[[1-[(4,6-dimethylbenzo[b]thien-3-yl)methyl]-5-methoxy-1H-benzimidazol-2-yl]thio]-
MF C24 H26 N2 O3 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

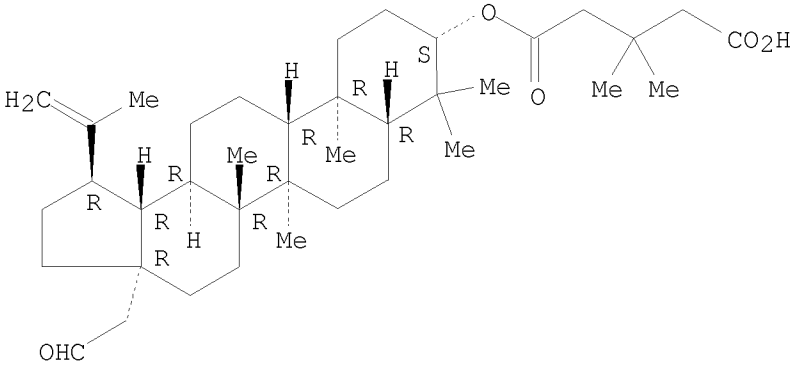
L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanoic acid, 5-oxo-5-[[[(2,4,6-trimethylphenyl)amino]carbonyl]amino]-
MF C15 H20 N2 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Lup-20(29)-ene-28-carboxaldehyde, 3-(4-carboxy-3,3-dimethyl-1-oxobutoxy)-, (3β)-
MF C38 H60 O5

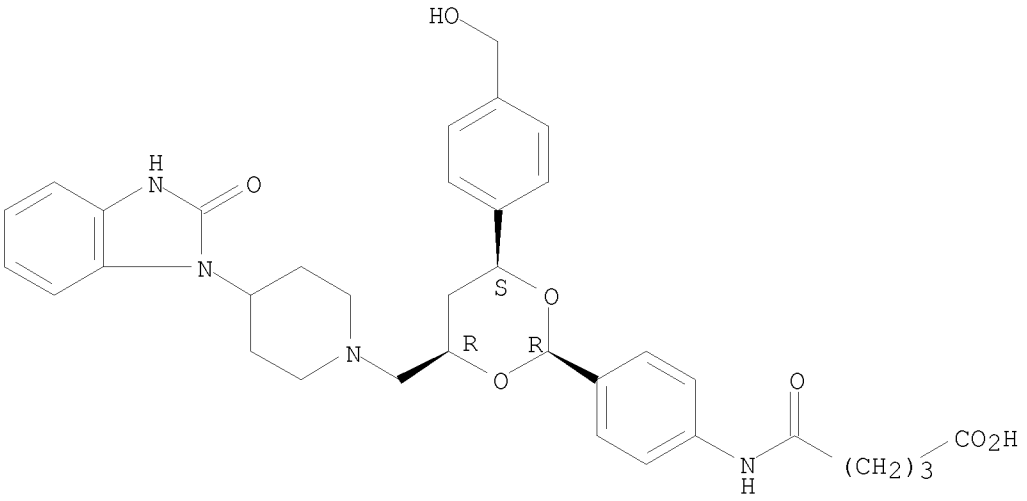
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

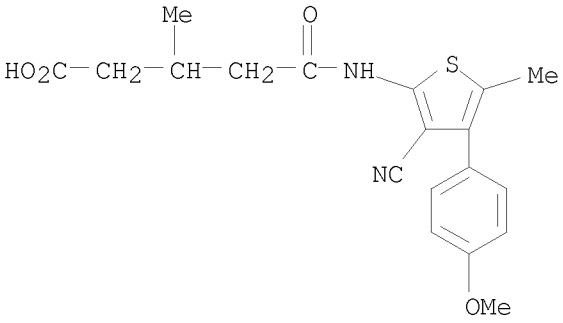
L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanoic acid, 5-[[4-[(2R,4R,6S)-4-[[4-(2,3-dihydro-2-oxo-1H-benzimidazol-1-yl)-1-piperidinyl]methyl]-6-[4-(hydroxymethyl)phenyl]-1,3-dioxan-2-yl]phenyl]amino]-5-oxo-
MF C35 H40 N4 O7

Absolute stereochemistry.



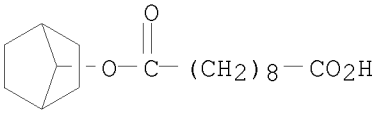
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanoic acid, 5-[[3-cyano-4-(4-methoxyphenyl)-5-methyl-2-thienyl]amino]-3-methyl-5-oxo-
MF C19 H20 N2 O4 S



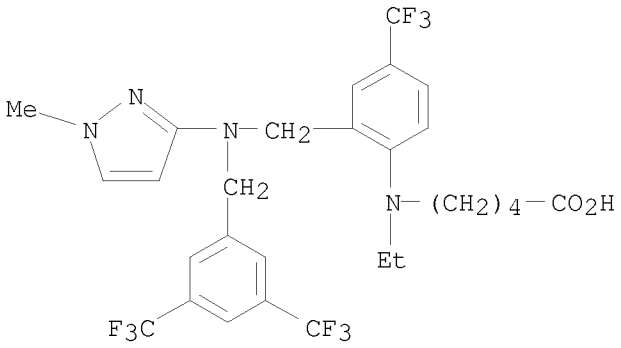
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Decanedioic acid, 1-bicyclo[2.2.1]hept-7-yl ester
MF C17 H28 O4



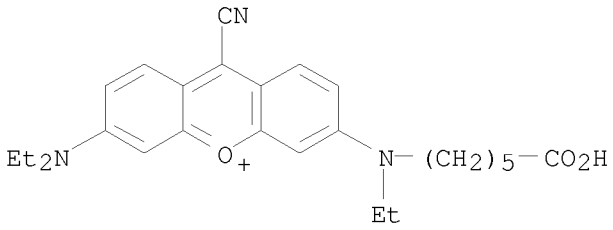
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanoic acid, 5-[[2-[[[[3,5-bis(trifluoromethyl)phenyl]methyl](1-methyl-1H-pyrazol-3-yl)amino]methyl]-4-(trifluoromethyl)phenyl]ethylamino]-
MF C28 H29 F9 N4 O2
CI COM

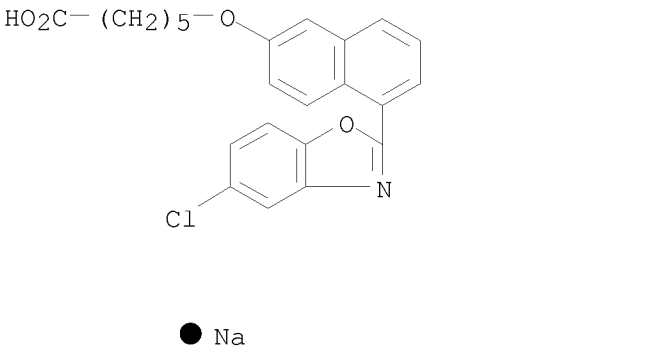


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

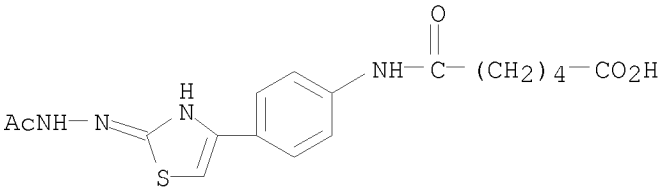
L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Xanthylium, 3-[(5-carboxypentyl)ethylamino]-9-cyano-6-(diethylamino)-
MF C26 H32 N3 O3
CI COM



L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Hexanoic acid, 6-[[5-(5-chloro-2-benzoxazolyl)-2-naphthalenyl]oxy]-, sodium salt (1:1)
MF C23 H20 Cl N O4 . Na



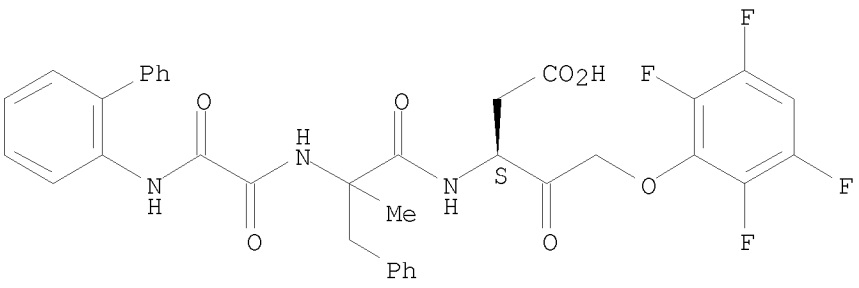
L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Hexanoic acid, 6-[[4-[2-(2-acetylhydrazinyl)-4-thiazolyl]phenyl]amino]-6-oxo-
MF C17 H20 N4 O4 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanoic acid, 3-[[2-[[2-([1,1'-biphenyl]-2-ylamino)-2-oxoacetyl]amino]-2-methyl-1-oxo-3-phenylpropyl]amino]-4-oxo-5-(2,3,5,6-tetrafluorophenoxy)-, (3S)-
MF C35 H29 F4 N3 O7

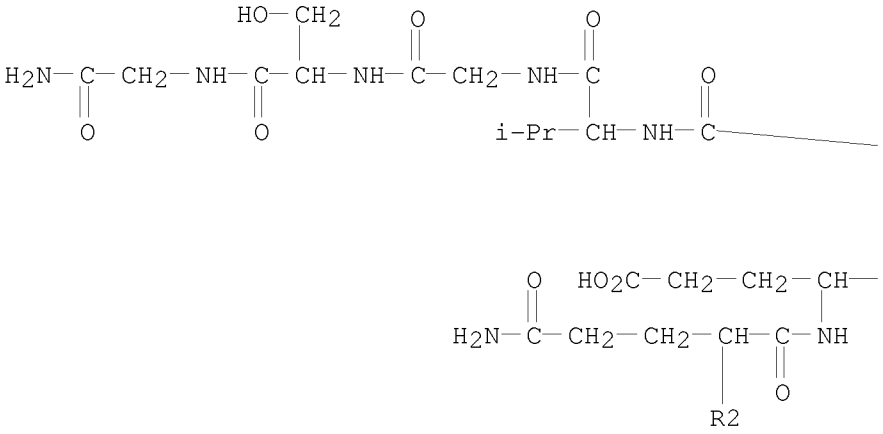
Absolute stereochemistry.



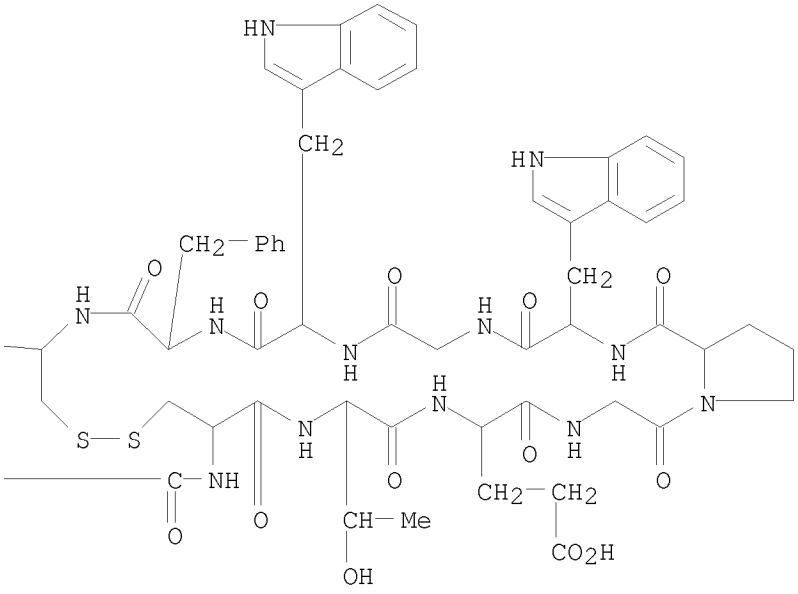
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Glycinamide, N-acetyl-L-α-glutamyl-L-isoleucyl-L-glutaminyl-L-α-glutamyl-L-cysteinyl-L-threonyl-L-α-glutamylglycyl-L-prolyl-L-tryptophylglycyl-L-tryptophyl-L-phenylalanyl-L-cysteinyl-L-valylglycyl-L-seryl-, cyclic (5→14)-disulfide (9CI)
SQL 18
MF C90 H122 N22 O28 S2

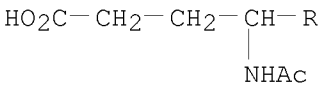
RELATED SEQUENCES AVAILABLE WITH SEQLINK

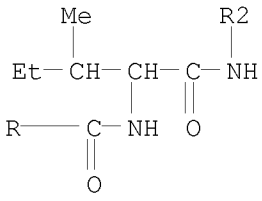


PAGE 1-B



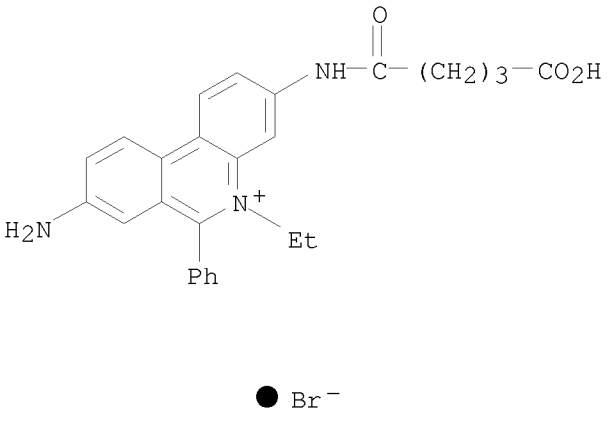
PAGE 2-A



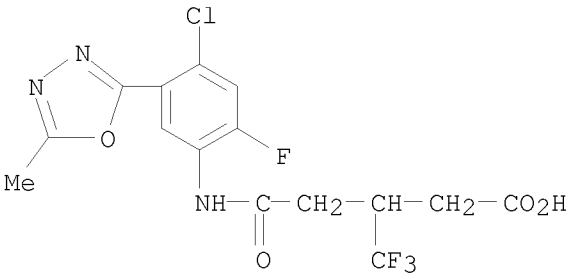


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Phenanthridinium, 8-amino-3-[(4-carboxy-1-oxobutyl)amino]-5-ethyl-6-phenyl-, bromide (1:1)
MF C26 H26 N3 O3 . Br



L2 35 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pentanoic acid, 5-[[4-chloro-2-fluoro-5-(5-methyl-1,3,4-oxadiazol-2-yl)phenyl]amino]-5-oxo-3-(trifluoromethyl)-
MF C15 H12 Cl F4 N3 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search l1 sss full
FULL SEARCH INITIATED 05:21:32 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1822843 TO ITERATE

73.4% PROCESSED 1338751 ITERATIONS 20942 ANSWERS

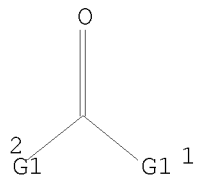
93.9% PROCESSED 1712226 ITERATIONS 24266 ANSWERS

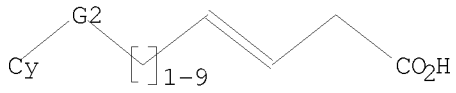
99.0% PROCESSED 1805079 ITERATIONS 24699 ANSWERS

100.0% PROCESSED 1822843 ITERATIONS 24701 ANSWERS
SEARCH TIME: 00.01.08

L3 24701 SEA SSS FUL L1

```
=> save temp l3 masterset/a
ANSWER SET L3 HAS BEEN SAVED AS 'MASTERSET/A'

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10025947\10025947 pt VII bg unsat.str

L4      STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4              STR
```



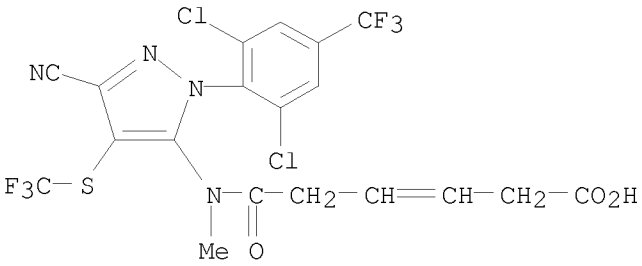


G1 O,N

G2 O,S,N,[@1-@2]

Structure attributes must be viewed using STN Express query preparation.

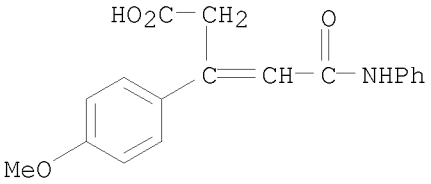
```
=> search l4 sss sam subset = l3
SAMPLE SUBSET SEARCH INITIATED 05:28:53 FILE 'REGISTRY'
SAMPLE SUBSET SCREEN SEARCH COMPLETED -       19 TO ITERATE

100.0% PROCESSED       19 ITERATIONS                              11 ANSWERS
SEARCH TIME: 00.00.01

PROJECTIONS (WITHIN SPECIFIED SUBSET):           ONLINE  **COMPLETE**
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET):          119 TO      641
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):              22 TO      418

L5           11 SEA SUB=L3 SSS SAM L4

=> d scan

L5   11 ANSWERS   REGISTRY  COPYRIGHT 2010 ACS on STN
IN   3-Hexenoic acid, 6-[[3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-
     [(trifluoromethyl)thio]-1H-pyrazol-5-yl]methylamino]-6-oxo-
MF   C19 H12 Cl2 F6 N4 O3 S
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):11

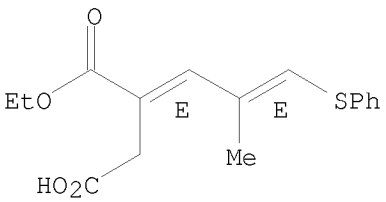
L5 11 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, 4-methoxy-β-[2-oxo-2-(phenylamino)ethylidene]-
MF C18 H17 N O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 11 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Butanedioic acid, 2-[(2E)-2-methyl-3-(phenylthio)-2-propen-1-ylidene]-, 1-ethyl ester, (2E)-
MF C16 H18 O4 S

Double bond geometry as shown.

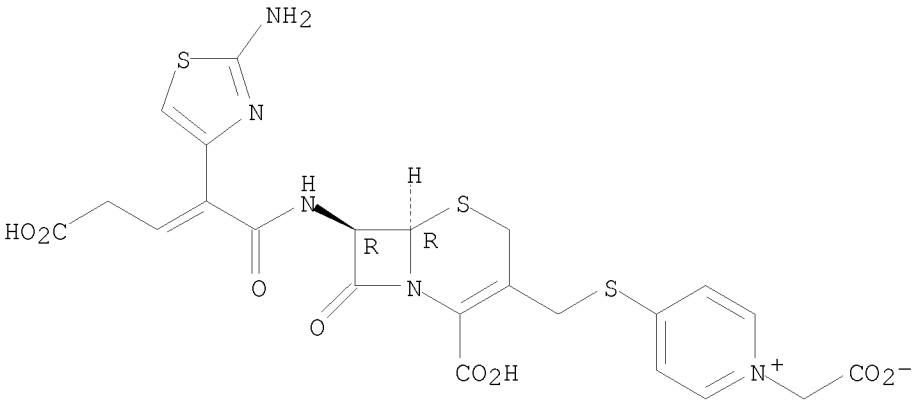


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 11 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN

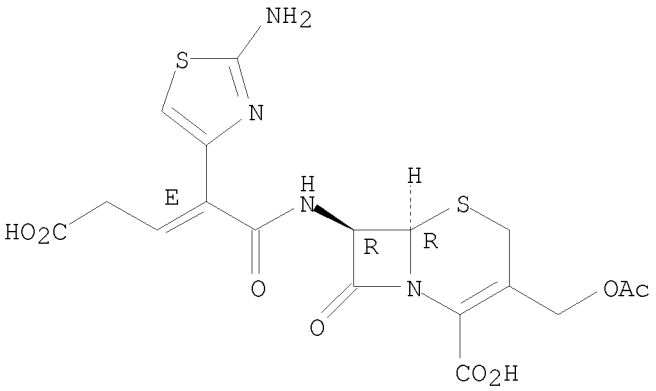
IN Pyridinium, 4-[[[7-[[2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]thio]-1-(carboxymethyl)-, inner salt, (6R-trans)- (9CI)
MF C23 H21 N5 O8 S3

Absolute stereochemistry.
Double bond geometry unknown.



L5 11 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[(acetyloxy)methyl]-7-[[2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-8-oxo-, [6R-[6α,7β(E)]]- (9CI)
MF C18 H18 N4 O8 S2

Absolute stereochemistry.
Double bond geometry as shown.

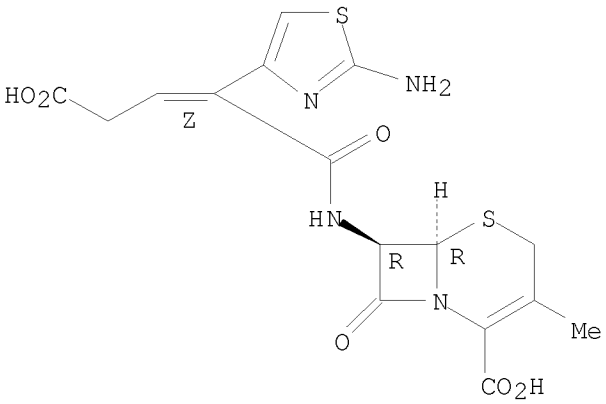


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 11 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-3-methyl-8-

oxo-, [6R-[6α,7β(Z)]]- (9CI)
MF C16 H16 N4 O6 S2

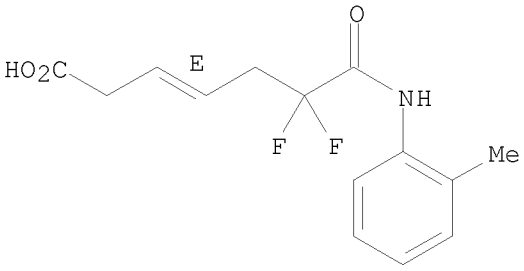
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 11 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Heptenoic acid, 6,6-difluoro-7-[(2-methylphenyl)amino]-7-oxo-, (3E)-
MF C14 H15 F2 N O3

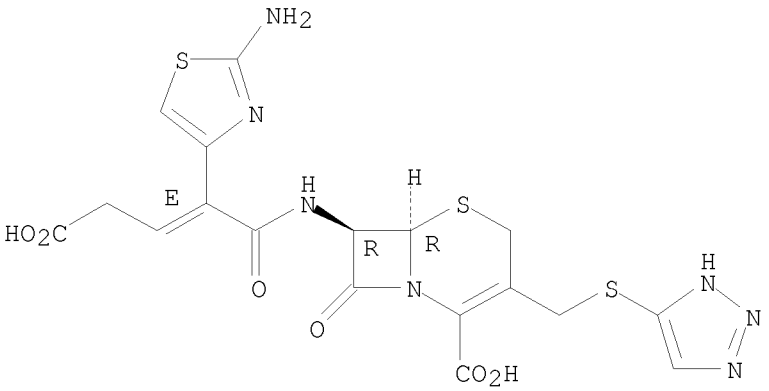
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 11 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[(2E)-2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-buten-1-yl]amino]-8-oxo-
3-[(1H-1,2,3-triazol-5-ylthio)methyl]-, (6R,7R)-
MF C18 H17 N7 O6 S3
CI COM

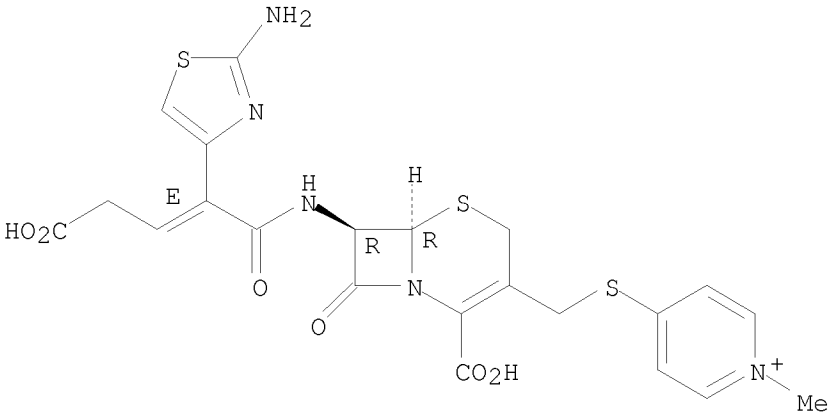
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 11 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Pyridinium, 4-[[[7-[[2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]thio]-1-methyl-, [6R-[6α,7β(E)]]- (9CI)
MF C22 H22 N5 O6 S3

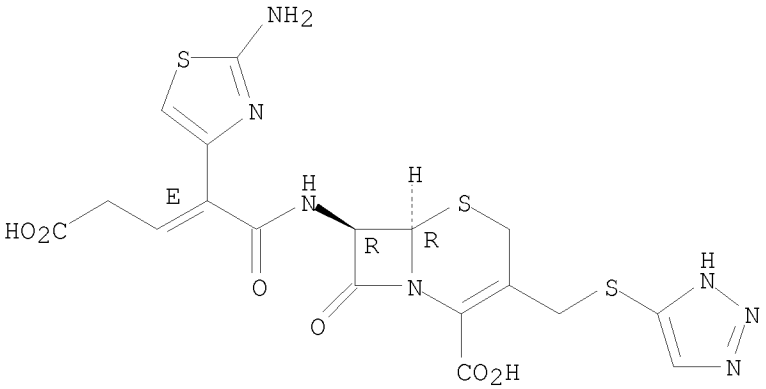
Absolute stereochemistry.
Double bond geometry as shown.



L5 11 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-8-oxo-3-[(1H-1,2,3-triazol-4-ylthio)methyl]-, disodium salt, [6R-[6α,7β(E)]]- (9CI)

MF C18 H17 N7 O6 S3 . 2 Na

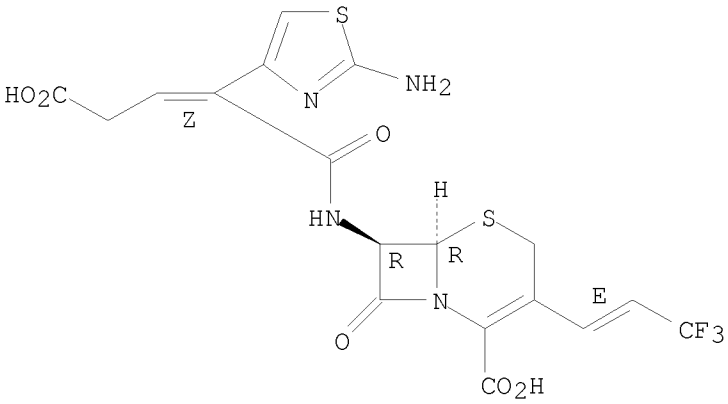
Absolute stereochemistry.
Double bond geometry as shown.



●2 Na

L5 11 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-8-oxo-3-(3,3,3-trifluoro-1-propenyl)-, [6R-[3(E),6α,7β(Z)]]- (9CI)
MF C18 H15 F3 N4 O6 S2

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search l4 sss full subset = l3
FULL SUBSET SEARCH INITIATED 05:31:21 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 438 TO ITERATE

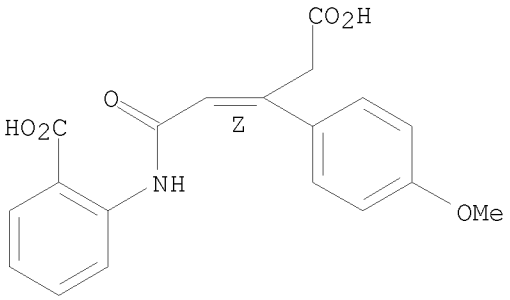
100.0% PROCESSED 438 ITERATIONS 222 ANSWERS
SEARCH TIME: 00.00.01

L6 222 SEA SUB=L3 SSS FUL L4

=> d scan

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, β-[2-[(2-carboxyphenyl)amino]-2-oxoethylidene]-4-methoxy-, (βZ)-
MF C19 H17 N O6

Double bond geometry as shown.

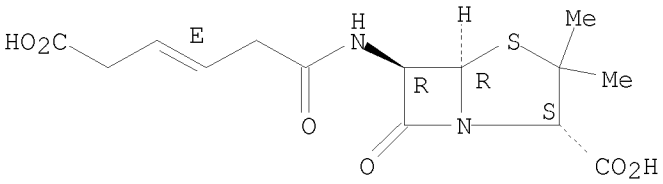


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[(3E)-5-carboxy-1-oxo-3-penten-1-yl]amino]-3,3-dimethyl-7-oxo-, sodium salt (1:2), (2S,5R,6R)-
MF C14 H18 N2 O6 S . 2 Na

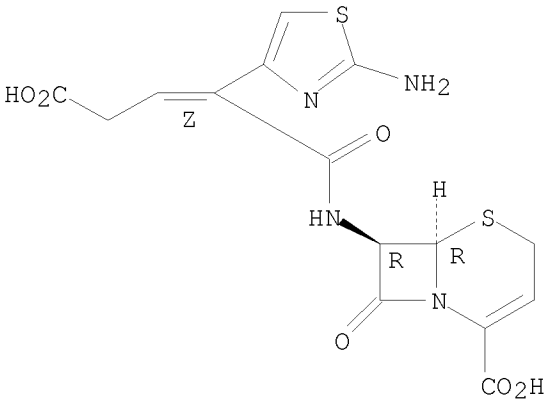
Absolute stereochemistry.
Double bond geometry as shown.



●2 Na

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-8-oxo-, sodium salt, [6R-[6α,7β(Z)]]- (9CI)
MF C15 H14 N4 O6 S2 . x Na

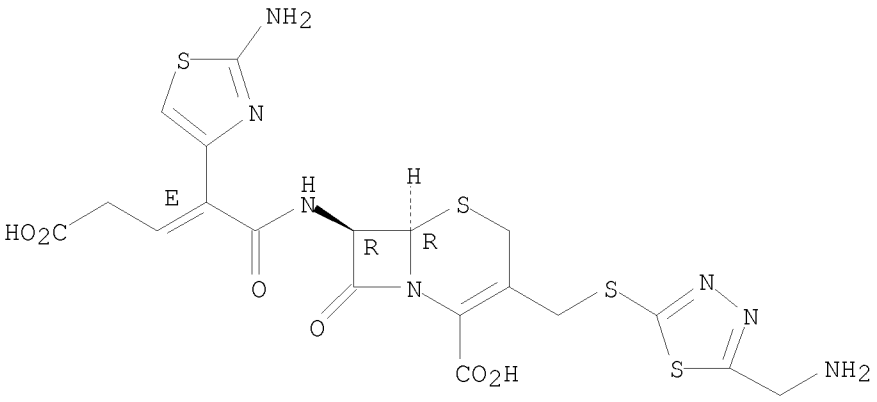
Absolute stereochemistry.
Double bond geometry as shown.



●x Na

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[[[5-(aminomethyl)-1,3,4-thiadiazol-2-yl]thio]methyl]-7-[[2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-8-oxo-, [6R-[6α,7β(E)]]- (9CI)
MF C19 H19 N7 O6 S4

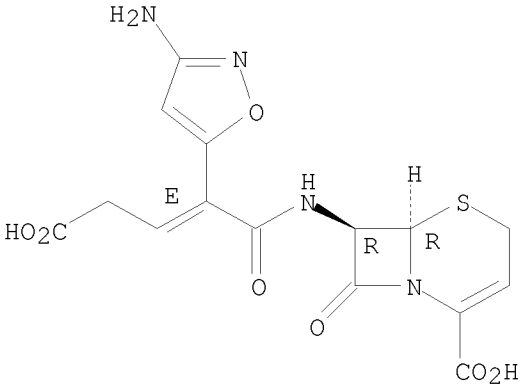
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[2-(3-amino-5-isoxazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-8-oxo-, [6R-[6α,7β(E)]]- (9CI)
MF C15 H14 N4 O7 S

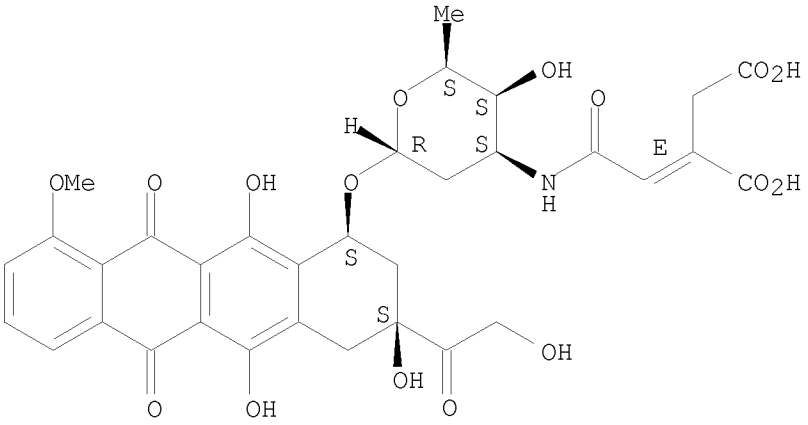
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5,12-Naphthacenedione, 10-[[3-[[(2E)-3,4-dicarboxy-1-oxo-2-buten-1-yl]amino]-2,3,6-trideoxy-α-L-lyxo-hexopyranosyl]oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-8-(2-hydroxyacetyl)-1-methoxy-, (8S,10S)-
MF C33 H33 N O16

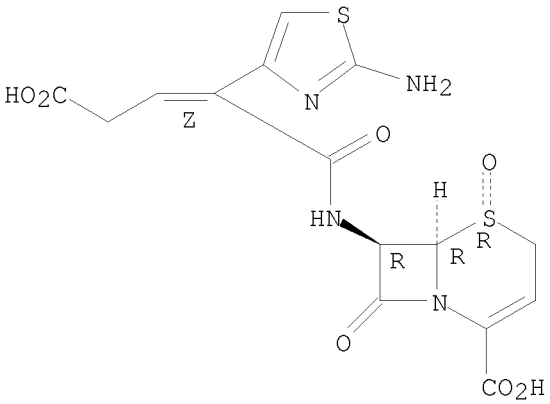
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[(2Z)-2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-buten-1-yl]amino]-8-oxo-, 5-oxide, (5R,6R,7R)-
MF C15 H14 N4 O7 S2
CI COM

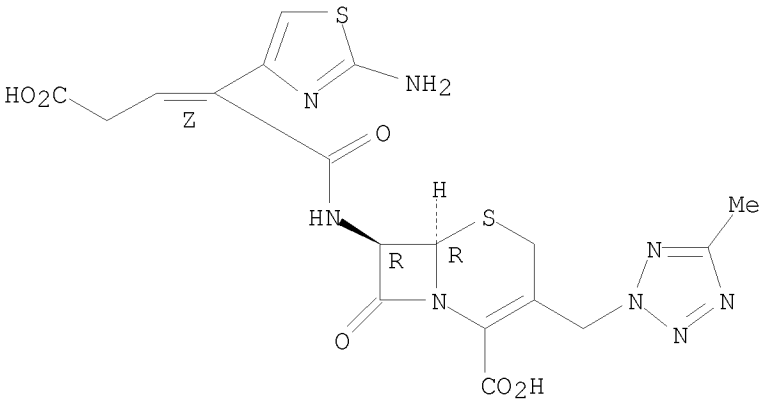
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-3-[(5-methyl-2H-tetrazol-2-yl)methyl]-8-oxo-, [6R-[6α,7β(Z)]]- (9CI)
MF C18 H18 N8 O6 S2

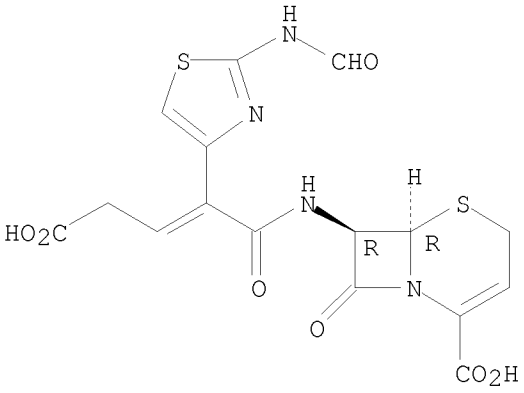
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[4-carboxy-2-[2-(formylamino)-4-thiazolyl]-1-oxo-2-butenyl]amino]-8-oxo-, (6R-trans)- (9CI)
MF C16 H14 N4 O7 S2

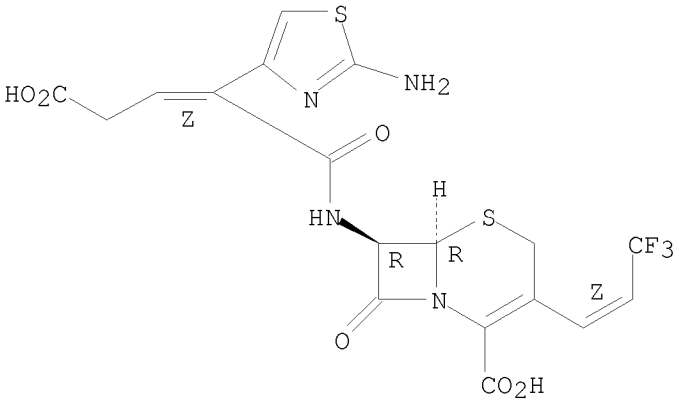
Absolute stereochemistry.
Double bond geometry unknown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

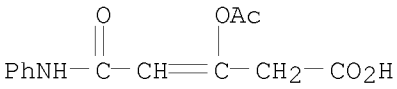
L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-8-oxo-3-(3,3,3-trifluoro-1-propenyl)-, [6R-[3(Z),6α,7β(Z)]]- (9CI)
MF C18 H15 F3 N4 O6 S2

Absolute stereochemistry.
Double bond geometry as shown.



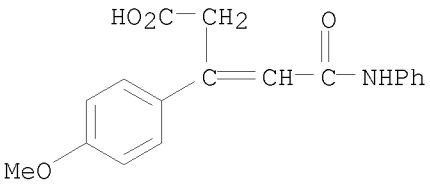
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 3-(acetyloxy)-5-oxo-5-(phenylamino)-
MF C13 H13 N O5



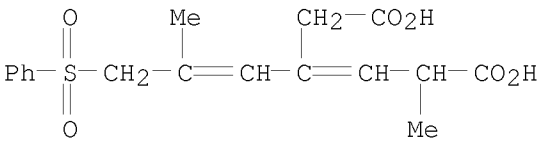
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, 4-methoxy-β-[2-oxo-2-(phenylamino)ethylidene]-
MF C18 H17 N O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

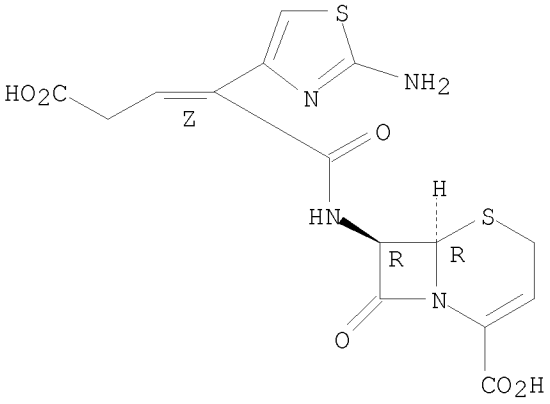
L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenedioic acid, 2-methyl-4-[2-methyl-3-(phenylsulfonyl)-1-propen-1-yl]-
MF C17 H20 O6 S

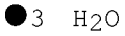


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-8-oxo-, trihydrate, [6R-[6α,7β(Z)]]- (9CI)
MF C15 H14 N4 O6 S2 . 3 H2 O

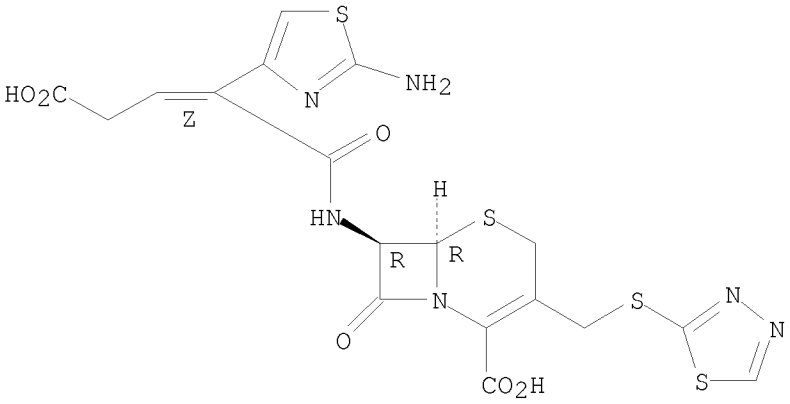
Absolute stereochemistry.
Double bond geometry as shown.





L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-8-oxo-3-[(1,3,4-thiadiazol-2-ylthio)methyl]-, [6R-[6α,7β(Z)]]- (9CI)
MF C18 H16 N6 O6 S4

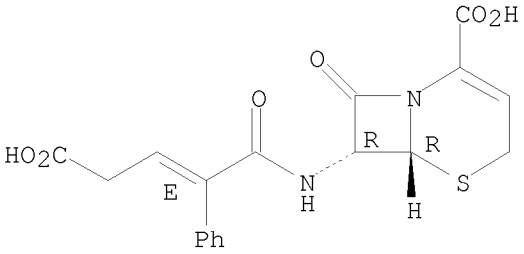
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[(4-carboxy-1-oxo-2-phenyl-2-butenyl)amino]-8-oxo-, disodium salt, [6R-[6α,7β(E)]]- (9CI)
MF C18 H16 N2 O6 S . 2 Na

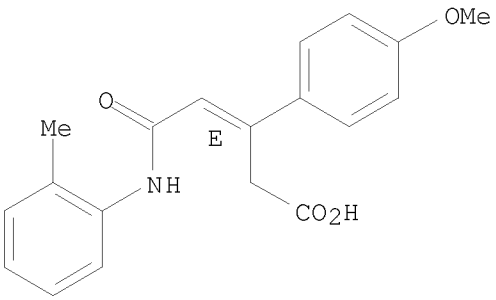
Absolute stereochemistry.
Double bond geometry as shown.



●2 Na

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C19 H19 N O4

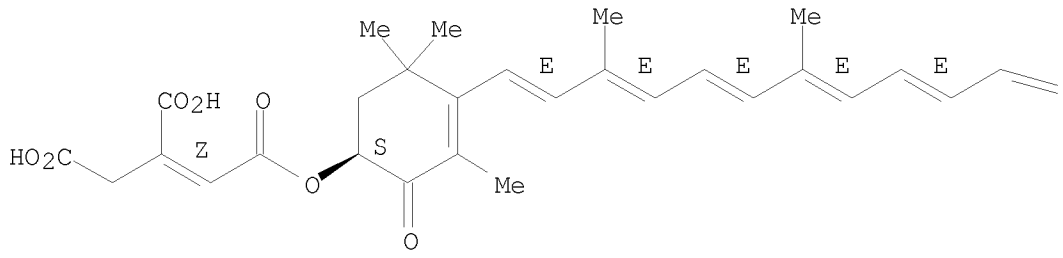
Double bond geometry as shown.



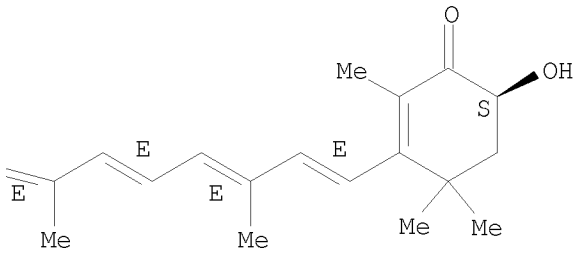
L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN β,β-Carotene-4,4'-dione,
3-[[(2Z)-3,4-dicarboxy-1-oxo-2-butenyl]oxy]-3'-hydroxy-, (3S,3'S)- (9CI)
MF C46 H56 O9

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

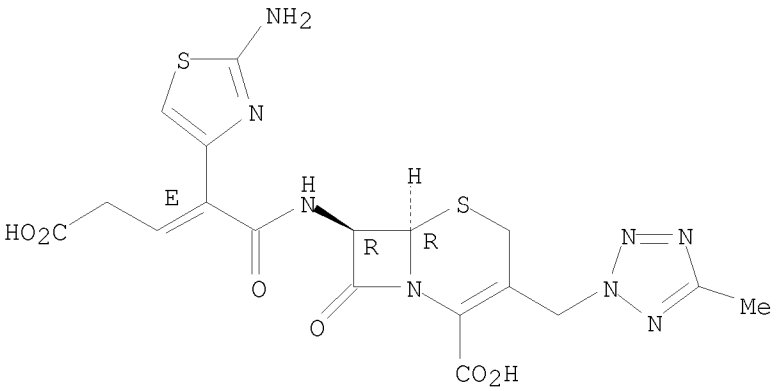


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-3-[(5-methyl-
2H-tetrazol-2-yl)methyl]-8-oxo-, [6R-[6α,7β(E)]]- (9CI)

MF C18 H18 N8 O6 S2

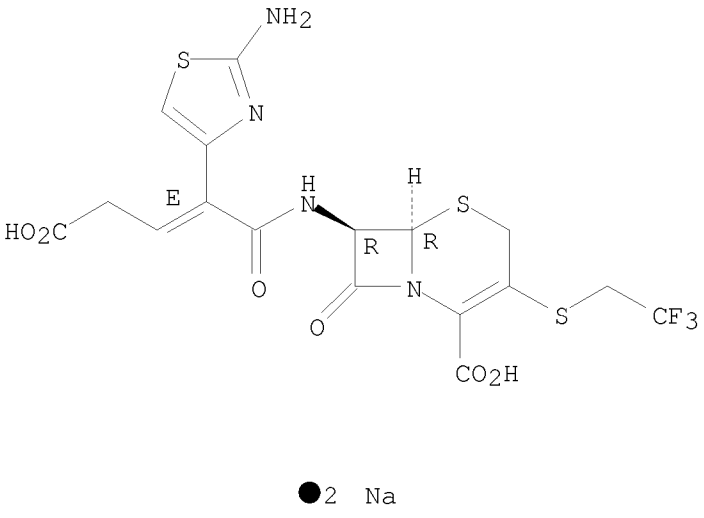
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[[2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-butenyl]amino]-8-oxo-3-[(2,2,2-trifluoroethyl)thio]-, disodium salt, [6R-[6α,7β(E)]]- (9CI)
MF C17 H15 F3 N4 O6 S3 . 2 Na

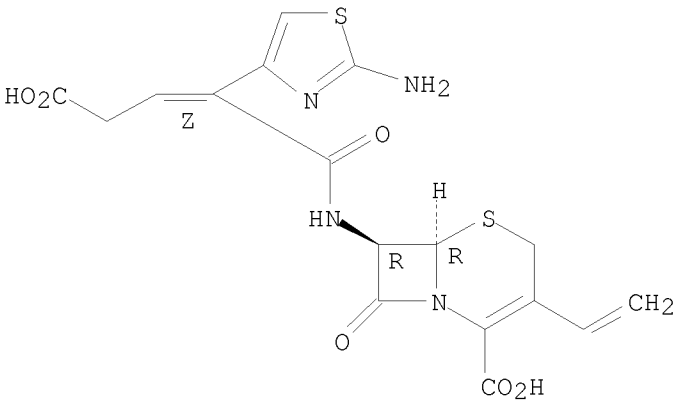
Absolute stereochemistry.
Double bond geometry as shown.



L6 222 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN

IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
    7-[[(2Z)-2-(2-amino-4-thiazolyl)-4-carboxy-1-oxo-2-buten-1-yl]amino]-3-
    ethenyl-8-oxo-, (6R,7R)-
MF C17 H16 N4 O6 S2

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

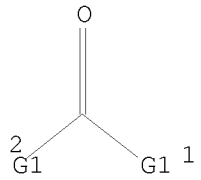
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

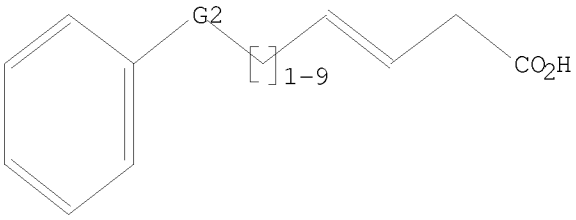
=> save temp l6 mstrunsats/a
ANSWER SET L6 HAS BEEN SAVED AS 'MSTRUNSATS/A'

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10025947\10025947 pt VII phenyl unsats.str

L7 STRUCTURE UPLOADED

=> d l7
L7 HAS NO ANSWERS
L7 STR





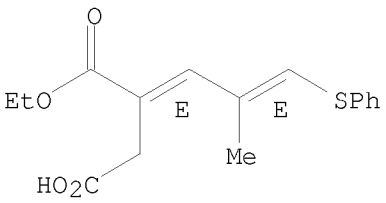
G1 O,N

G2 O,S,N,[@1-@2]

Structure attributes must be viewed using STN Express query preparation.

```
=> searh l7 sss sam subset =l6
COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID
The query entered contains both search terms created by
structure-building or screen commands and text search terms.  L#s
created via the STRUCTURE or SCREEN commands must be searched in the
structures files separately from text terms or profiles.  The L#
answer sets from structure searches can be used in crossover searches
and can be combined with text terms.

=> search l7 sss sam subset =l6
SAMPLE SUBSET SEARCH INITIATED 05:37:58 FILE 'REGISTRY'
SAMPLE SUBSET SCREEN SEARCH COMPLETED -       11 TO ITERATE

100.0% PROCESSED       11 ITERATIONS                              3 ANSWERS
SEARCH TIME: 00.00.01

PROJECTIONS (WITHIN SPECIFIED SUBSET):          ONLINE  **COMPLETE**
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET):          22 TO      418
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):              3 TO      163

L8            3 SEA SUB=L6 SSS SAM L7

=> d scan

L8   3 ANSWERS   REGISTRY  COPYRIGHT 2010 ACS on STN
IN   Butanedioic acid, 2-[(2E)-2-methyl-3-(phenylthio)-2-propen-1-ylidene]-,
     1-ethyl ester, (2E)-
MF   C16 H18 O4 S
```

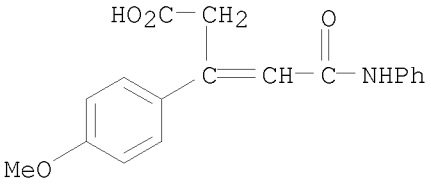
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

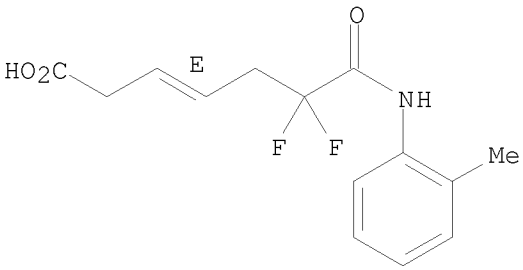
L8 3 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, 4-methoxy-β-[2-oxo-2-(phenylamino)ethylidene]-
MF C18 H17 N O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L8 3 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Heptenoic acid, 6,6-difluoro-7-[(2-methylphenyl)amino]-7-oxo-, (3E)-
MF C14 H15 F2 N O3

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search l7 sss full subset =l6
FULL SUBSET SEARCH INITIATED 05:39:30 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 222 TO ITERATE

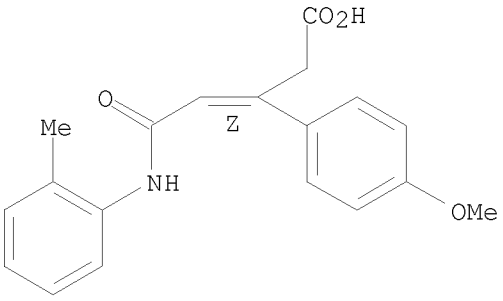
100.0% PROCESSED 222 ITERATIONS 46 ANSWERS
SEARCH TIME: 00.00.01

L9 46 SEA SUB=L6 SSS FUL L7

=> d scan

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, 4-methoxy-β-[2-[(2-methylphenyl)amino]-2-oxoethylidene]-, (βZ)-
MF C19 H19 N O4

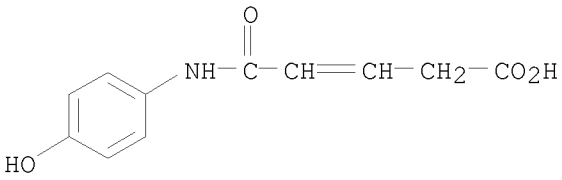
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):46

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-[(4-hydroxyphenyl)amino]-5-oxo-
MF C11 H11 N O4

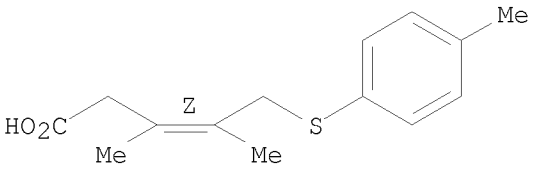


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN

IN 3-Pentenoic acid, 3,4-dimethyl-5-[(4-methylphenyl)thio]-, (3Z)-
MF C14 H18 O2 S

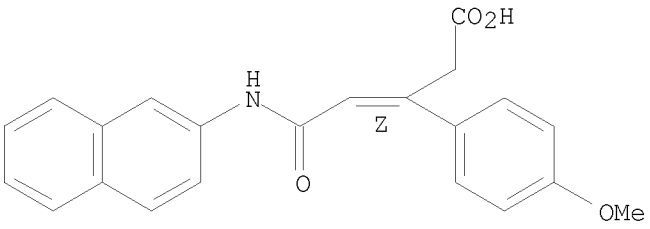
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

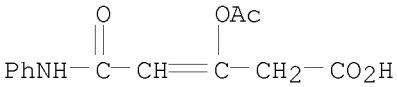
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, 4-methoxy-β-[2-(2-naphthalenylamino)-2-oxoethylidene]-, (βZ)-
MF C22 H19 N O4

Double bond geometry as shown.



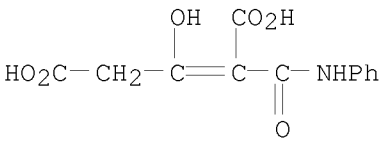
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 3-(acetyloxy)-5-oxo-5-(phenylamino)-
MF C13 H13 N O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

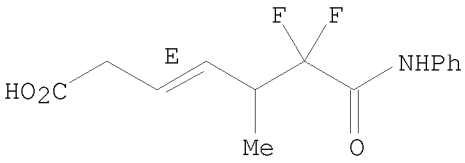
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 2-Pentenedioic acid, 3-hydroxy-2-[(phenylamino)carbonyl]-
MF C12 H11 N O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

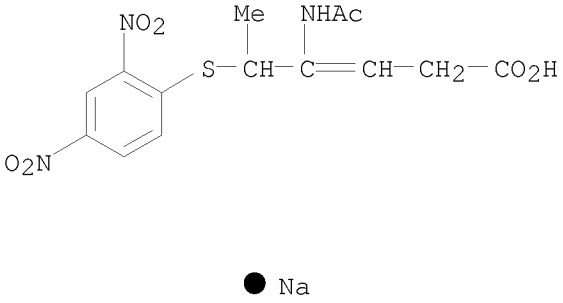
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Heptenoic acid, 6,6-difluoro-5-methyl-7-oxo-7-(phenylamino)-, (3E)-
MF C14 H15 F2 N O3

Double bond geometry as shown.



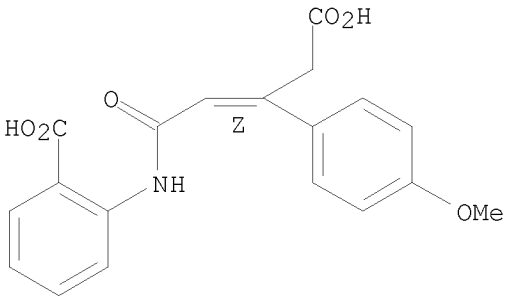
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 4-(acetylamino)-5-[(2,4-dinitrophenyl)thio]-, sodium salt (1:1)
MF C14 H15 N3 O7 S . Na



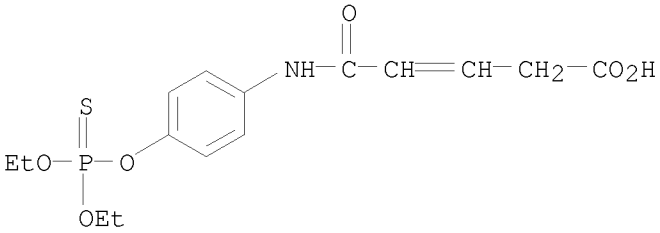
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, β-[2-[(2-carboxyphenyl)amino]-2-oxoethylidene]-4-methoxy-, (βZ)-
MF C19 H17 N O6

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

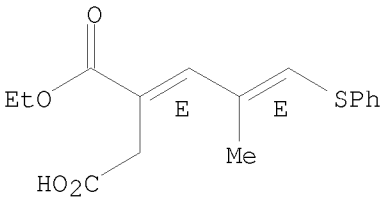
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-[[4-[(diethoxyphosphinothioyl)oxy]phenyl]amino]-5-oxo-
MF C15 H20 N O6 P S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Butanedioic acid, 2-[(2E)-2-methyl-3-(phenylthio)-2-propen-1-ylidene]-, 1-ethyl ester, (2E)-
MF C16 H18 O4 S

Double bond geometry as shown.

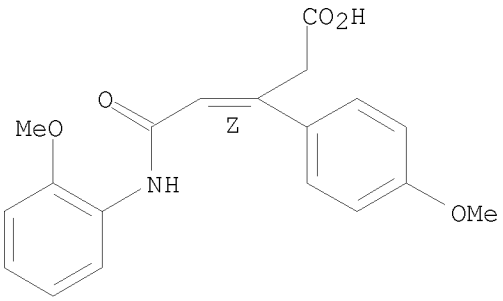


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, 4-methoxy-β-[2-[(2-methoxyphenyl)amino]-2-

oxoethylidene]-, (βZ)-
MF C19 H19 N O5

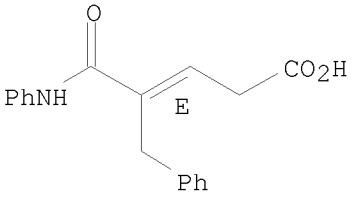
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

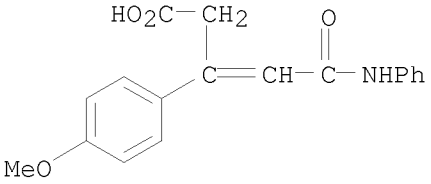
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C18 H17 N O3

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

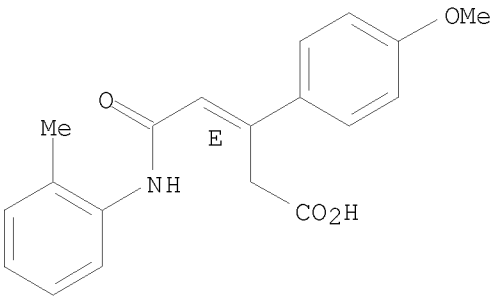
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, 4-methoxy-β-[2-oxo-2-(phenylamino)ethylidene]-
MF C18 H17 N O4



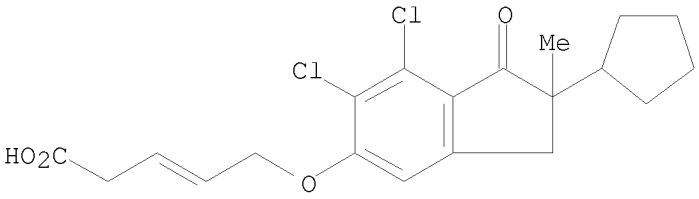
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C19 H19 N O4

Double bond geometry as shown.



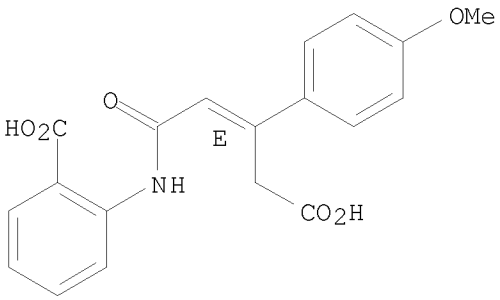
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-[(6,7-dichloro-2-cyclopentyl-2,3-dihydro-2-methyl-1-oxo-1H-inden-5-yl)oxy]-
MF C20 H22 Cl2 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C19 H17 N O6

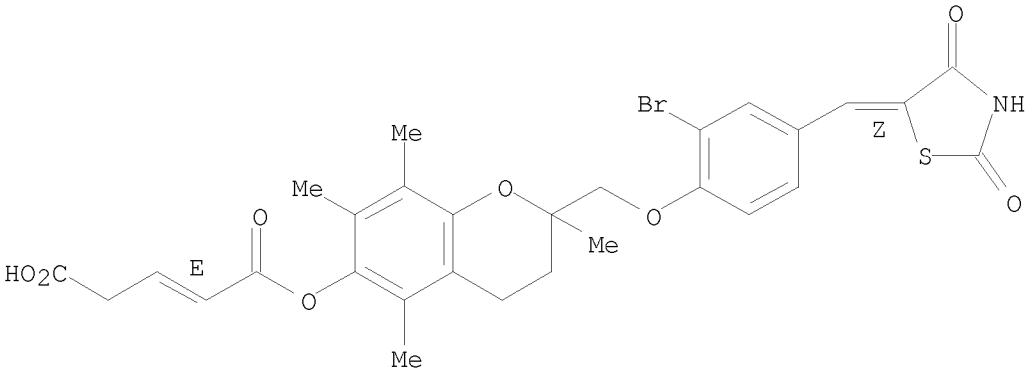
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

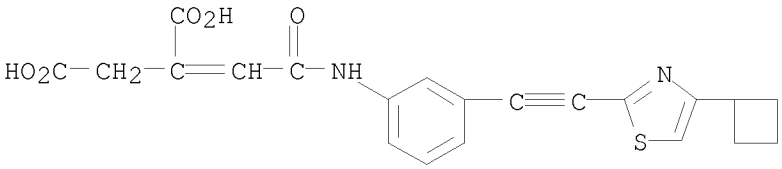
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 2-Pentenedioic acid, 1-[2-[[2-bromo-4-[(Z)-(2,4-dioxo-5-thiazolidinylidene)methyl]phenoxy]methyl]-3,4-dihydro-2,5,7,8-tetramethyl-2H-1-benzopyran-6-yl] ester, (2E)-
MF C29 H28 Br N O8 S

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

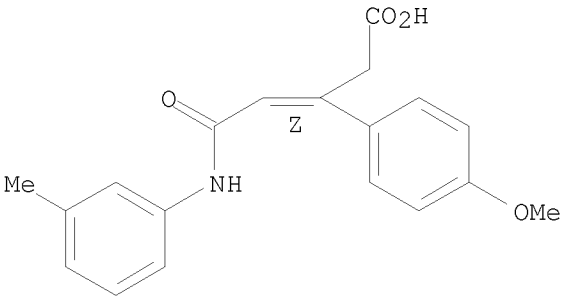
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Butanedioic acid, 2-[2-[[3-[2-(4-cyclobutyl-2-thiazolyl)ethynyl]phenyl]amino]-2-oxoethylidene]-
MF C21 H18 N2 O5 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

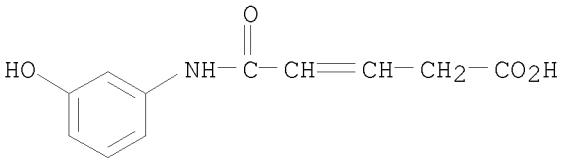
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, 4-methoxy-β-[2-[(3-methylphenyl)amino]-2-oxoethylidene]-, (βZ)-
MF C19 H19 N O4

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

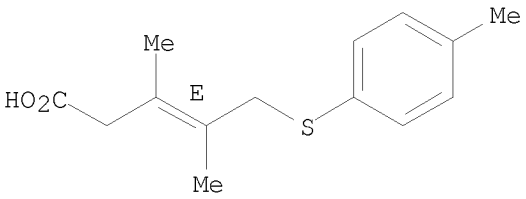
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-[(3-hydroxyphenyl)amino]-5-oxo-
MF C11 H11 N O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 3,4-dimethyl-5-[(4-methylphenyl)thio]-, (3E)-
MF C14 H18 O2 S

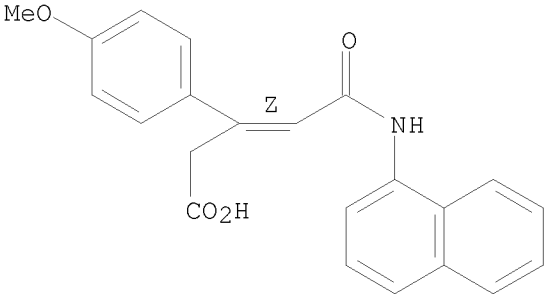
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, 4-methoxy-β-[2-(1-naphthalenylamino)-2-oxoethylidene]-, (βZ)-
MF C22 H19 N O4

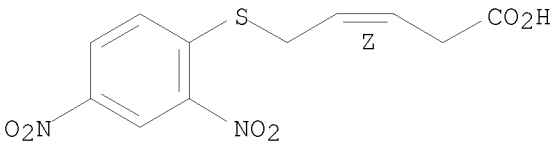
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

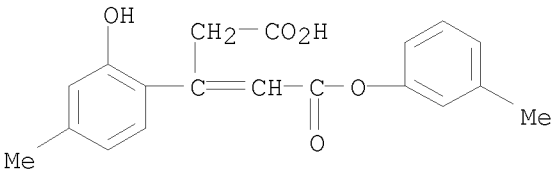
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-[(2,4-dinitrophenyl)thio]-, (Z)- (9CI)
MF C11 H10 N2 O6 S

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

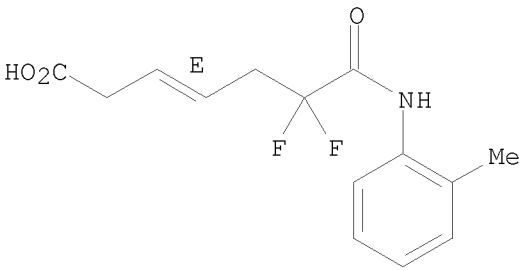
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 2-Pentenedioic acid, 3-(2-hydroxy-4-methylphenyl)-, 1-(3-methylphenyl) ester
MF C19 H18 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

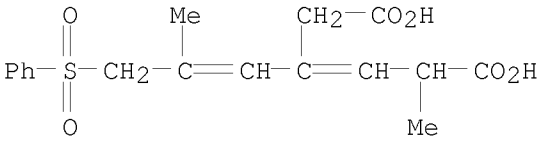
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Heptenoic acid, 6,6-difluoro-7-[(2-methylphenyl)amino]-7-oxo-, (3E)-
MF C14 H15 F2 N O3

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

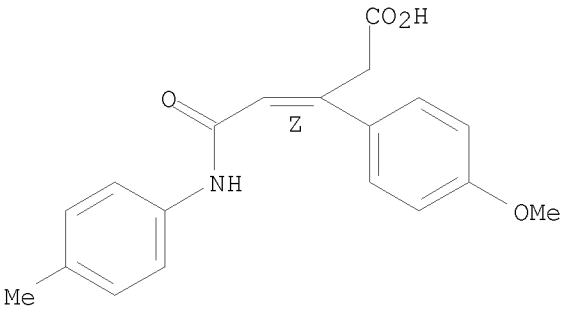
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenedioic acid, 2-methyl-4-[2-methyl-3-(phenylsulfonyl)-1-propen-1-yl]-
MF C17 H20 O6 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

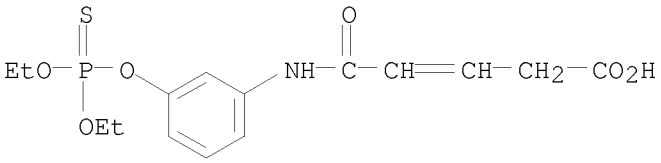
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, 4-methoxy-β-[2-[(4-methylphenyl)amino]-2-oxoethylidene]-, (βZ)-
MF C19 H19 N O4

Double bond geometry as shown.



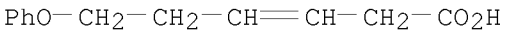
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-[[3-[(diethoxyphosphinothioyl)oxy]phenyl]amino]-5-oxo-
MF C15 H20 N O6 P S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

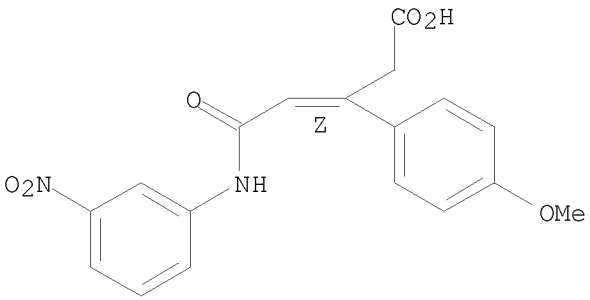
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 6-phenoxy-
MF C12 H14 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

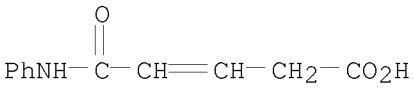
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, 4-methoxy-β-[2-[(3-nitrophenyl)amino]-2-oxoethylidene]-, (βZ)-
MF C18 H16 N2 O6

Double bond geometry as shown.



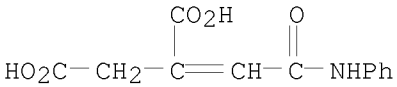
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-oxo-5-(phenylamino)-
MF C11 H11 N O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

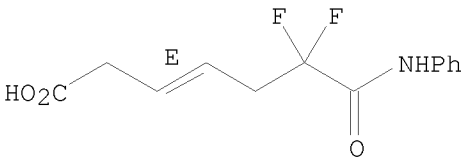
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Butanedioic acid, 2-[2-oxo-2-(phenylamino)ethylidene]-
MF C12 H11 N O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

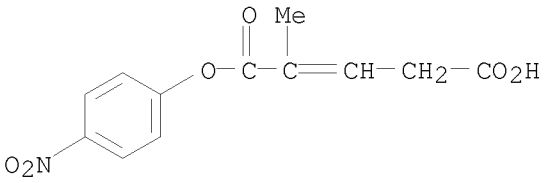
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Heptenoic acid, 6,6-difluoro-7-oxo-7-(phenylamino)-, (3E)-
MF C13 H13 F2 N O3

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

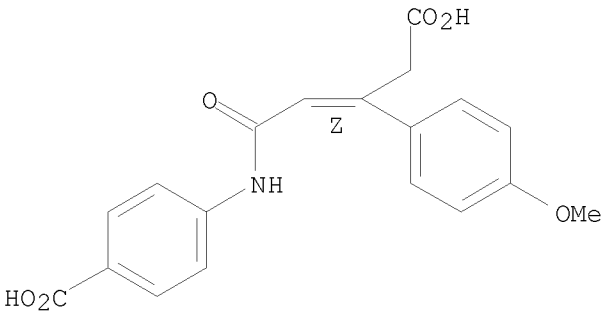
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 2-Pentenedioic acid, 2-methyl-, 1-(4-nitrophenyl) ester
MF C12 H11 N O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, β-[2-[(4-carboxyphenyl)amino]-2-oxoethylidene]-4-methoxy-, (βZ)-
MF C19 H17 N O6

Double bond geometry as shown.

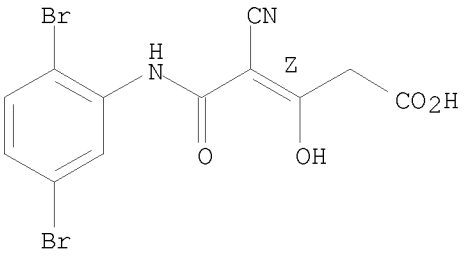


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 4-cyano-5-[(2,5-dibromophenyl)amino]-3-hydroxy-5-oxo-, (3Z)-

MF C12 H8 Br2 N2 O4

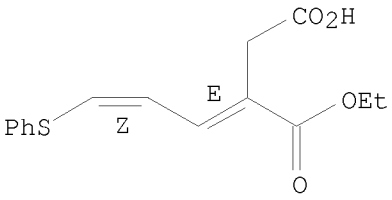
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Butanedioic acid, 2-[(2Z)-3-(phenylthio)-2-propen-1-ylidene]-, 1-ethyl ester, (2E)-
MF C15 H16 O4 S

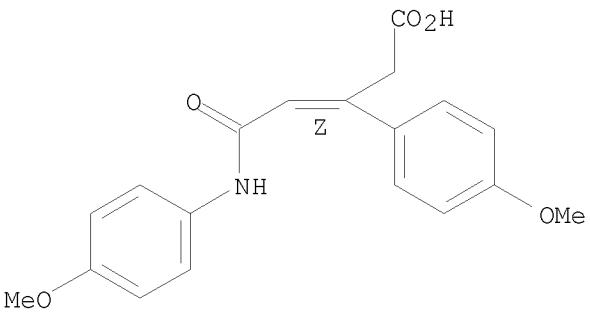
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepropanoic acid, 4-methoxy-β-[2-[(4-methoxyphenyl)amino]-2-oxoethylidene]-, (βZ)-
MF C19 H19 N O5

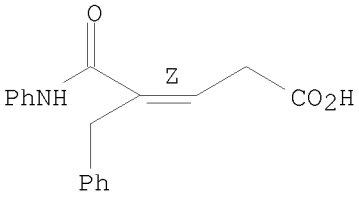
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

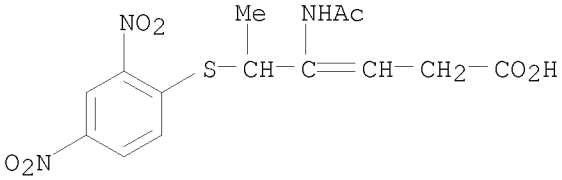
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C18 H17 N O3

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

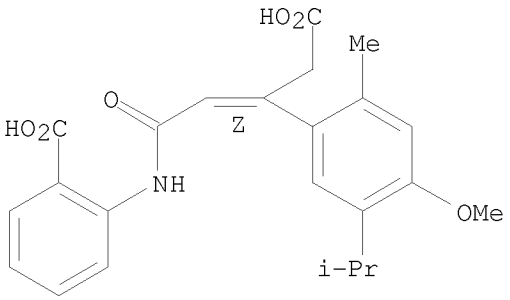
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 4-(acetylamino)-5-[(2,4-dinitrophenyl)thio]-
MF C14 H15 N3 O7 S
CI COM



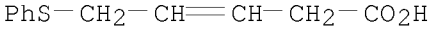
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C23 H25 N O6

Double bond geometry as shown.



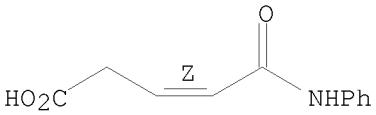
L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-(phenylthio)-
MF C11 H12 O2 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-oxo-5-(phenylamino)-, (3Z)-
MF C11 H11 N O3

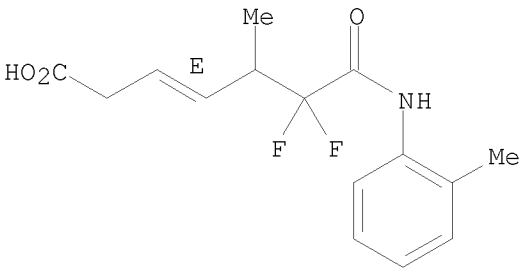
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Heptenoic acid, 6,6-difluoro-5-methyl-7-[(2-methylphenyl)amino]-7-oxo-, (3E)-
MF C15 H17 F2 N O3

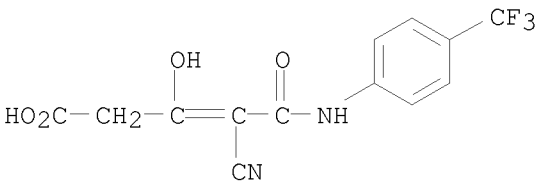
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L9 46 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 4-cyano-3-hydroxy-5-oxo-5-[[4-(trifluoromethyl)phenyl]amino]-

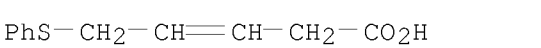
MF C13 H9 F3 N2 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

```
=> e 3-Pentenoic acid, 5-(phenylthio)-/cn
E1            1     3-PENTENOIC ACID, 5-(PHENYLAMINO)-, ETHYL ESTER, (Z)-/CN
E2            1     3-PENTENOIC ACID, 5-(PHENYLMETHOXY)-2-((TRIMETHYLSILYL)METHY
                    L)-, (2S,3Z)-/CN
E3            1 --> 3-PENTENOIC ACID, 5-(PHENYLTHIO)-/CN
E4            1     3-PENTENOIC ACID, 5-(PHENYLTHIO)-, METHYL ESTER, (3E)-/CN
E5            1     3-PENTENOIC ACID, 5-(PROPYLAMINO)-, ETHYL ESTER, (3E)-/CN
E6            1     3-PENTENOIC ACID, 5-(PROPYLAMINO)-, ETHYL ESTER, (3Z)-/CN
E7            1     3-PENTENOIC ACID, 5-(TETRAHYDRO-4,6-BIS((TRIMETHYLSILYL)OXY)
                    -2-(3-((TRIMETHYLSILYL)OXY)-1-OCTENYL)-2H-PYRAN-3-YL)-, METH
                    YL ESTER, (2R-(2A(1E,3S*),3B(Z),4B,6A)
                    )-/CN
E8            1     3-PENTENOIC ACID, 5-(TETRAHYDRO-4,6-DIHYDROXY-2-(3-HYDROXY-1
                    ,5-OCTADIEN-1-YL)-2H-PYRAN-3-YL)-/CN
E9            1     3-PENTENOIC ACID, 5-(TETRAHYDRO-4,6-DIHYDROXY-2-(3-HYDROXY-1
                    ,5-OCTADIENYL)-2H-PYRAN-3-YL)-/CN
E10           1     3-PENTENOIC ACID, 5-(TETRAHYDRO-4,6-DIHYDROXY-2-(3-HYDROXY-1
                    -OCTEN-1-YL)-2H-PYRAN-3-YL)-/CN
E11           1     3-PENTENOIC ACID, 5-(TETRAHYDRO-4,6-DIHYDROXY-2-(3-HYDROXY-1
                    -OCTENYL)-2H-PYRAN-3-YL)-/CN
E12           1     3-PENTENOIC ACID, 5-(TETRAHYDRO-4,6-DIHYDROXY-2-(3-HYDROXY-1
                    -OCTENYL)-2H-PYRAN-3-YL)-, (2R-(2A(1E,3S*),3B(Z),
                    4B,6A))-/CN

=> e3
L10           1 "3-PENTENOIC ACID, 5-(PHENYLTHIO)-"/CN

=> d l10

L10  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2010 ACS on STN
RN   80959-56-4  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   3-Pentenoic acid, 5-(phenylthio)-  (CA INDEX NAME)
MF   C11 H12 O2 S
LC   STN Files:   BEILSTEIN*, CA, CAPLUS, CASREACT
         (*File contains numerically searchable property data)
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	309.74	309.96

FILE 'CAPLUS' ENTERED AT 05:43:31 ON 07 APR 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 7 Apr 2010 VOL 152 ISS 15
FILE LAST UPDATED: 6 Apr 2010 (20100406/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

CAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l10
L11 1 L10

=> d l11 ti fbib abs

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN
TI Regioselectivity of β-vinyl-β-propiolactone toward various nucleophiles
AN 1982:103582 CAPLUS <<LOGINID::20100407>>
DN 96:103582
OREF 96:17001a,17004a
TI Regioselectivity of β-vinyl-β-propiolactone toward various nucleophiles
AU Fujisawa, Tamotsu; Sato, Toshio; Takeuchi, Masashi
CS Chem. Dep. Resour., Mie Univ., Mie, 514, Japan
SO Chemistry Letters (1982), (1), 71-4
CODEN: CMLTAG; ISSN: 0366-7022
DT Journal

LA English
OS CASREACT 96:103582
AB Regioselectivity in the reaction of β-vinyl-β-propiolactone with various nucleophiles depends on the hard and soft acid and base (HSAB) principle. A hard base such as methoxide ion attacked the acyl carbon exclusively, while the nucleophilic attack of soft bases such as iodide and dialkyl cuprate preferred the terminal vinyl carbon to the β-carbon.
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.60	316.56

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.85	-0.85

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 05:47:42 ON 07 APR 2010

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 05:50:04 ON 07 APR 2010
FILE 'CAPLUS' ENTERED AT 05:50:04 ON 07 APR 2010
COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.60	316.56

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.85	-0.85

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.10	320.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.85	-0.85

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 05:54:08 ON 07 APR 2010

Connecting via Winsock to STN

```
Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 06:05:27 ON 07 APR 2010
FILE 'CAPLUS' ENTERED AT 06:05:27 ON 07 APR 2010
COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      10.10     320.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -0.85      -0.85

=> d his

     (FILE 'HOME' ENTERED AT 05:07:01 ON 07 APR 2010)

     FILE 'REGISTRY' ENTERED AT 05:07:13 ON 07 APR 2010
L1             STRUCTURE UPLOADED
L2          35 SEARCH L1 SSS SAM
L3       24701 SEARCH L1 SSS FULL
               SAVE TEMP L3 MASTERSET/A
L4             STRUCTURE UPLOADED
L5          11 SEARCH L4 SSS SAM  SUB=L3
L6         222 SEARCH L4 SSS FULL  SUB=L3
               SAVE TEMP L6 MSTRUNSATS/A
L7             STRUCTURE UPLOADED
L8           3 SEARCH L7 SSS SAM  SUB=L6
L9          46 SEARCH L7 SSS FULL  SUB=L6
               E 3-PENTENOIC ACID, 5-(PHENYLTHIO)-/CN
L10          1 E3

     FILE 'CAPLUS' ENTERED AT 05:43:31 ON 07 APR 2010
L11          1 L10

=> d l11 1 ti fbib abs it

L11  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2010 ACS on STN
TI   Regioselectivity of β-vinyl-β-propiolactone toward various
     nucleophiles
AN   1982:103582  CAPLUS <<LOGINID::20100407>>
DN   96:103582
OREF 96:17001a,17004a
TI   Regioselectivity of β-vinyl-β-propiolactone toward various
     nucleophiles
AU   Fujisawa, Tamotsu; Sato, Toshio; Takeuchi, Masashi
CS   Chem. Dep. Resour., Mie Univ., Mie, 514, Japan
SO   Chemistry Letters (1982), (1), 71-4
     CODEN: CMLTAG; ISSN: 0366-7022
DT   Journal
LA   English
OS   CASREACT 96:103582
AB   Regioselectivity in the reaction of β-vinyl-β-propiolactone with
     various nucleophiles depends on the hard and soft acid and base (HSAB)
```

principle. A hard base such as methoxide ion attacked the acyl carbon exclusively, while the nucleophilic attack of soft bases such as iodide and dialkyl cuprate preferred the terminal vinyl carbon to the β-carbon.

IT Substitution reaction, nucleophilic
(of vinylpropiolactone, pentenoic acid derivs. from)

IT 7379-74-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(nucleophilic substitution of)

IT 62-53-3, reactions 67-56-1, reactions 108-98-5, reactions 123-75-1, reactions 124-41-4 693-03-8 930-69-8 7447-41-8, reactions 7550-35-8 10377-51-2 26679-41-4 34762-98-6 54360-69-9 77090-33-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(nucleophilic substitution of, with vinylpropiolactone)

IT 4124-88-3P 38996-02-0P 43084-04-4P 80959-53-1P 80959-54-2P 80959-55-3P 80959-56-4P 80959-57-5P 80959-58-6P 80959-59-7P 80959-60-0P 80959-61-1P 80959-62-2P 80959-63-3P 80959-64-4P 80967-14-2P 80967-15-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

=> 80959-56-4
REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L13 1 L12

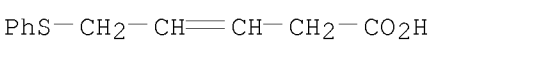
=> display hitstr l13 1

L13 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN

IT 80959-56-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 80959-56-4 CAPLUS

CN 3-Pentenoic acid, 5-(phenylthio)- (CA INDEX NAME)



=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.52	331.56
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.70

FILE 'REGISTRY' ENTERED AT 06:08:27 ON 07 APR 2010

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 5 APR 2010 HIGHEST RN 1217056-90-0
DICTIONARY FILE UPDATES: 5 APR 2010 HIGHEST RN 1217056-90-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

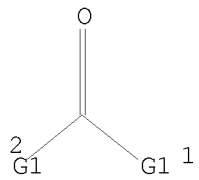
REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

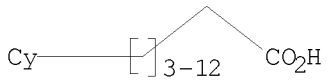
http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10025947\10025947 y2 bond pt vii genus.str

L14 STRUCTURE UPLOADED

=> d l14
L14 HAS NO ANSWERS
L14 STR



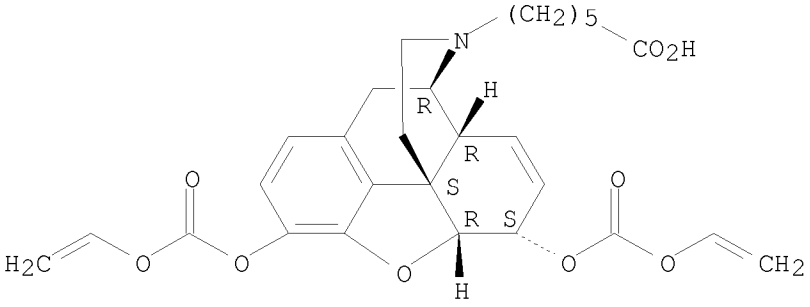


G1 O,N

G2 O,S,N,[@1-@2]

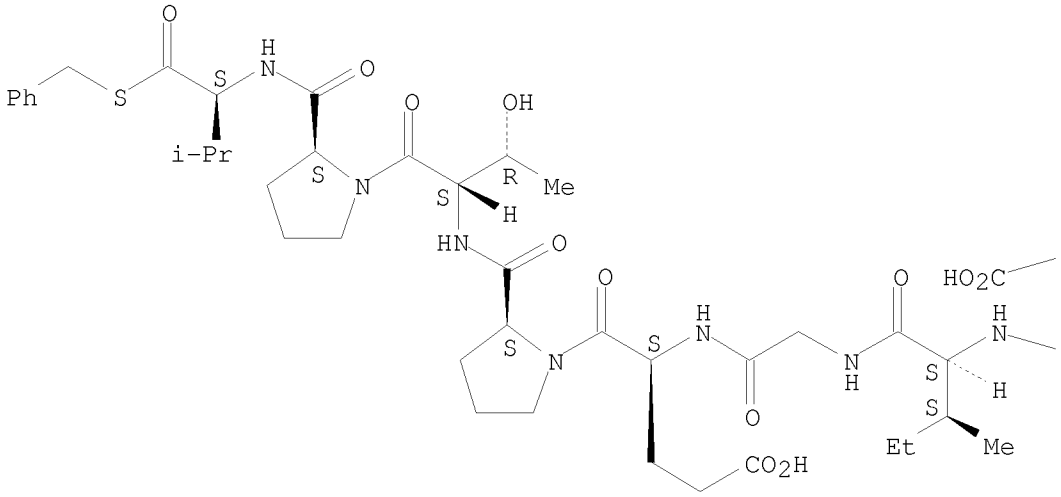
Structure attributes must be viewed using STN Express query preparation.

```
=> search l14 sss sam
SAMPLE SEARCH INITIATED 06:09:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    80106 TO ITERATE

  2.5% PROCESSED     2000 ITERATIONS                                  3 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:      1585257 TO  1618983
PROJECTED ANSWERS:            1746 TO     3060

L15           3 SEA SSS SAM L14

=> dscan
L16           0 DSCAN

=> d scan l15

L15  3 ANSWERS   REGISTRY  COPYRIGHT 2010 ACS on STN
IN   Morphinan-17-hexanoic acid, 7,8-didehydro-4,5-epoxy-3,6-
     bis[[(ethenyloxy)carbonyl]oxy]-, (5α,6α)- (9CI)
MF   C28 H31 N O9

Absolute stereochemistry.
```

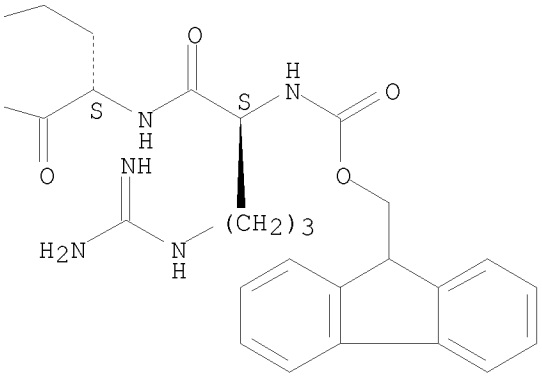



```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L15  3 ANSWERS   REGISTRY  COPYRIGHT 2010 ACS on STN
IN   L-Valine, N2-[(9H-fluoren-9-ylmethoxy)carbonyl]-L-arginyl-L-α-
     glutamyl-L-isoleucylglycyl-L-α-glutamyl-L-prolyl-L-threonyl-L-
     prolylthio-, 9-S-(phenylmethyl) ester
SQL  9
MF   C65 H88 N12 O16 S

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**

Absolute stereochemistry.
```

PAGE 1-A



PAGE 1-B

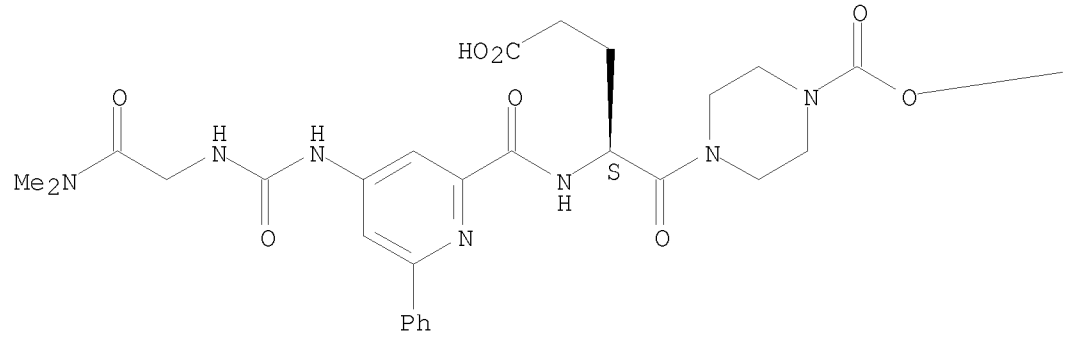


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

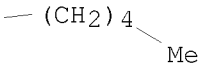
L15 3 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 1-Piperazinepentanoic acid, γ-[[[4-[[[[2-(dimethylamino)-2-oxoethyl]amino]carbonyl]amino]-6-phenyl-2-pyridinyl]carbonyl]amino]-δ-oxo-4-[(pentyloxy)carbonyl]-, (γS)-
MF C32 H43 N7 O8

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search l14 sss full
FULL SEARCH INITIATED 06:10:54 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1603430 TO ITERATE

72.8% PROCESSED 1167273 ITERATIONS 1338 ANSWERS

93.5% PROCESSED 1498657 ITERATIONS 1789 ANSWERS

99.0% PROCESSED 1587265 ITERATIONS 1810 ANSWERS

100.0% PROCESSED 1603430 ITERATIONS 1810 ANSWERS
SEARCH TIME: 00.01.06

L17 1810 SEA SSS FUL L14

=> d scan

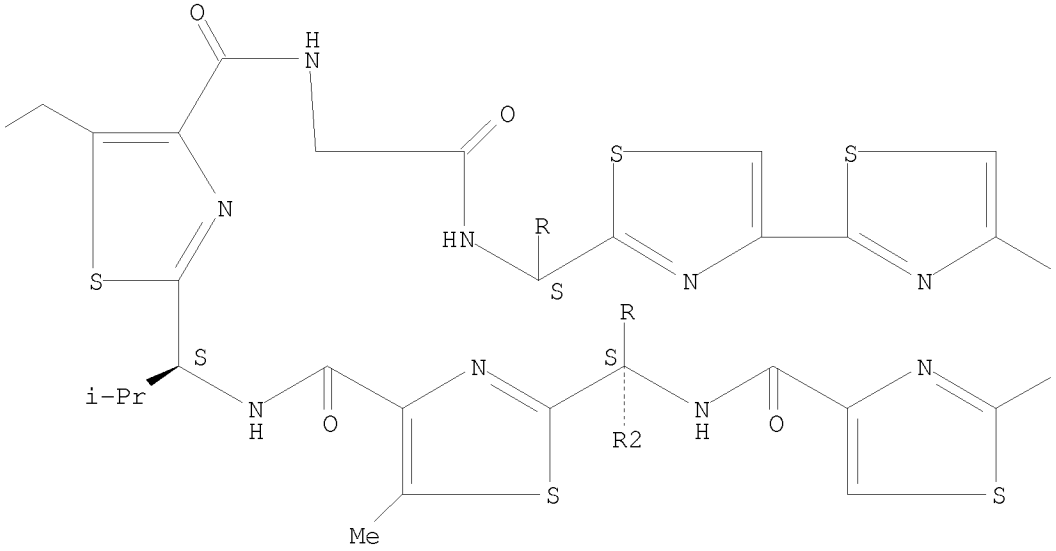
L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Cyclohexanepentanoic acid, 1-carboxy-4-[[[(4-carboxybutyl)[2-[(11S,18S,28S)-10,11,17,18,23,24,25,26,27,28-decahydro-28-[(S)-hydroxyphenylmethyl]-21-(methoxymethyl)-14-methyl-11-[2-(methylamino)-2-oxoethyl]-18-(1-methylethyl)-9,16,23,26-tetraoxo-9H,16H-8,5:15,12:22,19:32,29:36,33-pentanitrilo-5H,29H,33H-pyrido[3,2-a1][1,11,18,25,31,4,7,14,21]pentathiatetraazacyclotetratriacontin-2-yl]-4-thiazolyl]amino]carbonyl]oxy]-, cis-
MF C65 H71 N13 O15 S6

Absolute stereochemistry.

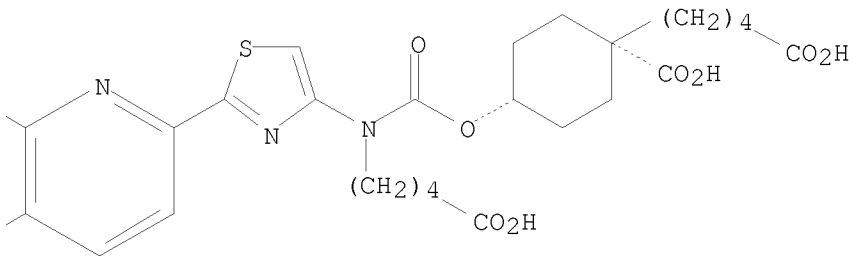
PAGE 1-B

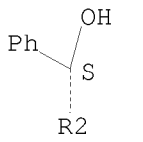
MeO

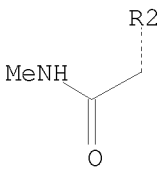
PAGE 1-C



PAGE 1-D



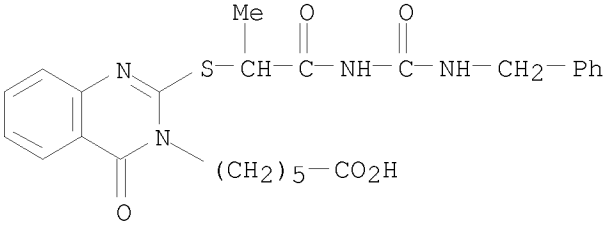




PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3(4H)-Quinazolinehexanoic acid, 2-[[1-methyl-2-oxo-2-[[[(phenylmethyl)amino]carbonyl]amino]ethyl]thio]-4-oxo-
MF C25 H28 N4 O5 S

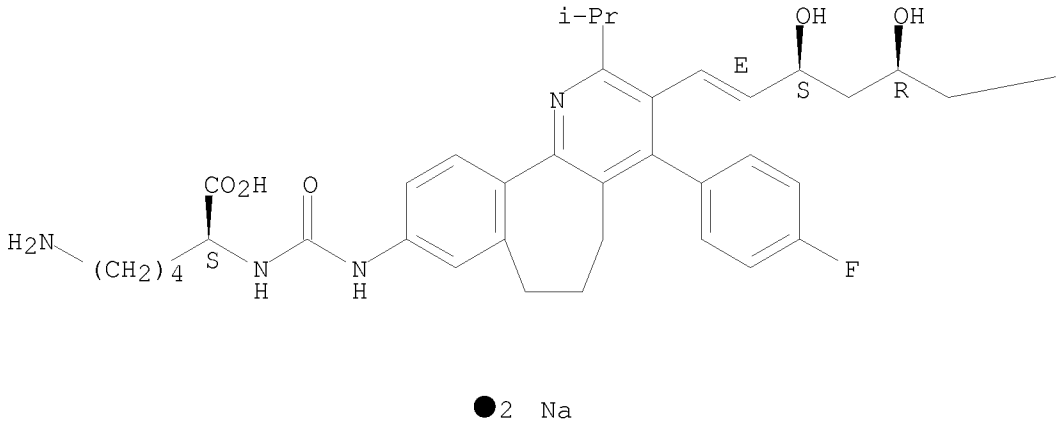


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 6-Heptenoic acid, 7-[9-[[[[(1S)-5-amino-1-carboxypentyl]amino]carbonyl]amino]-4-(4-fluorophenyl)-6,7-dihydro-2-(1-methylethyl)-5H-benzo[6,7]cyclohepta[1,2-b]pyridin-3-yl]-3,5-dihydroxy-, sodium salt (1:2), (3R,5S,6E)-
MF C37 H45 F N4 O7 . 2 Na

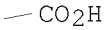
Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



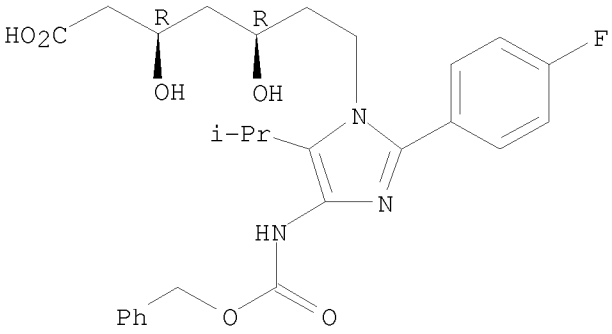
●2 Na

PAGE 1-B



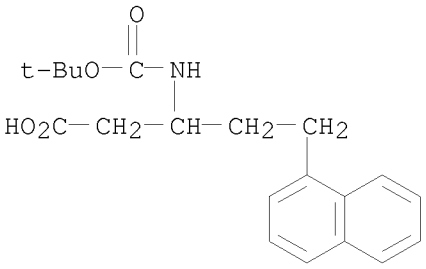
L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 1H-Imidazole-1-heptanoic acid, 2-(4-fluorophenyl)-β,δ-dihydroxy-5-(1-methylethyl)-4-[[(phenylmethoxy)carbonyl]amino]-, (βR,δR)-
MF C27 H32 F N3 O6
CI COM

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 1-Naphthalenepentanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-
MF C20 H25 N O4

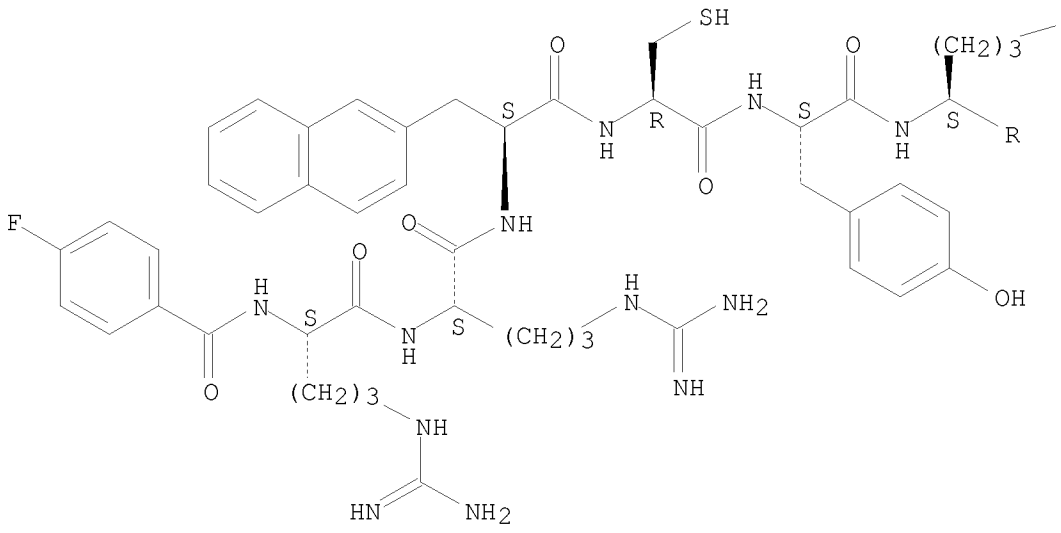


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

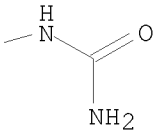
L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN L-Argininamide, N2-(4-fluorobenzoyl)-L-arginyl-L-arginyl-3-(2-naphthalenyl)-L-alanyl-L-cysteinyl-L-tyrosyl-N5-(aminocarbonyl)-L-ornithyl-L-lysyl-D-α-glutamyl-L-prolyl-L-tyrosyl-L-arginyl-N5-(aminocarbonyl)-L-ornithyl-L-cysteinyl-
SQL 14
MF C96 H141 F N32 O21 S2

RELATED SEQUENCES AVAILABLE WITH SEQLINK

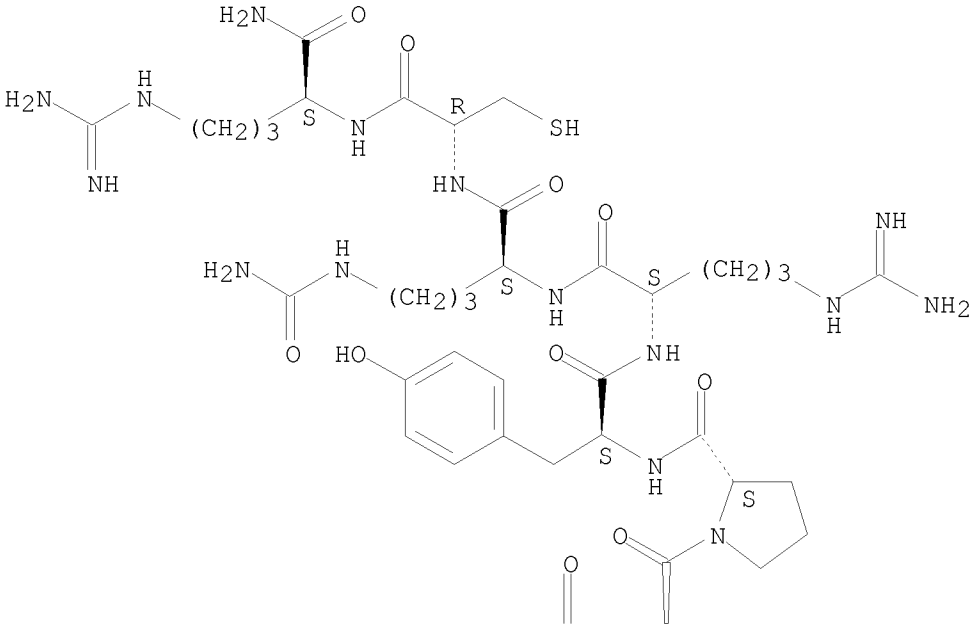
Absolute stereochemistry.



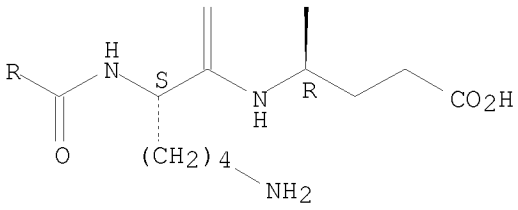
PAGE 1-B



PAGE 2-A



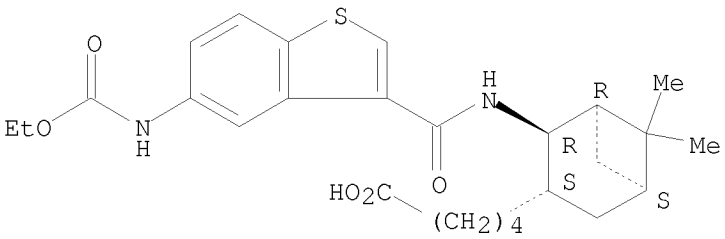
PAGE 3-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Bicyclo[3.1.1]heptane-3-pentanoic acid, 2-[[[5-[(ethoxycarbonyl)amino]benzo[b]thien-3-yl]carbonyl]amino]-6,6-dimethyl-, (1R,2R,3S,5S)-
MF C26 H34 N2 O5 S

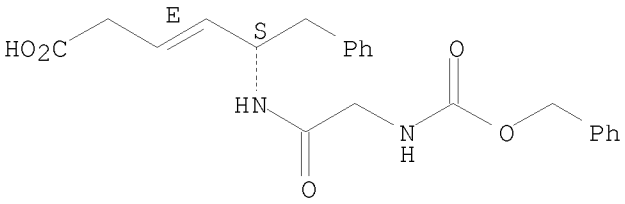
Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 6-phenyl-5-[[2-
[[(phenylmethoxy)carbonyl]amino]acetyl]amino]-, (3E,5S)-
MF C22 H24 N2 O5

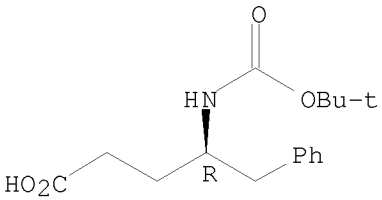
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

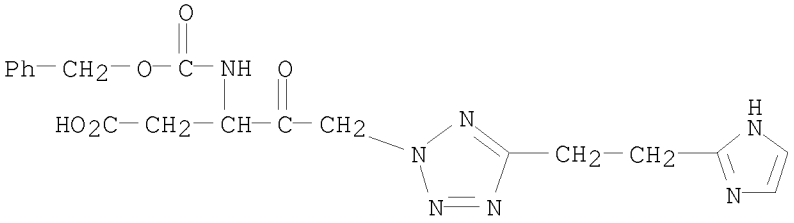
L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepentanoic acid, γ-[[(1,1-dimethylethoxy)carbonyl]amino]-,
(γR)-
MF C16 H23 N O4

Absolute stereochemistry. Rotation (-).



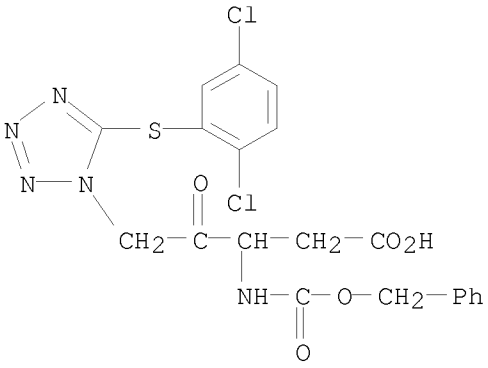
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 1810 ANSWERS   REGISTRY COPYRIGHT 2010 ACS on STN
IN   2H-Tetrazole-2-pentanoic acid, 5-[2-(1H-imidazol-2-yl)ethyl]-γ-oxo-
     β-[[(phenylmethoxy)carbonyl]amino]-, monohydrochloride (9CI)
MF   C19 H21 N7 O5 . Cl H



● HCl

L17 1810 ANSWERS   REGISTRY COPYRIGHT 2010 ACS on STN
IN   1H-Tetrazole-1-pentanoic acid, 5-[(2,5-dichlorophenyl)thio]-γ-oxo-
     β-[[(phenylmethoxy)carbonyl]amino]-
MF   C20 H17 Cl2 N5 O5 S



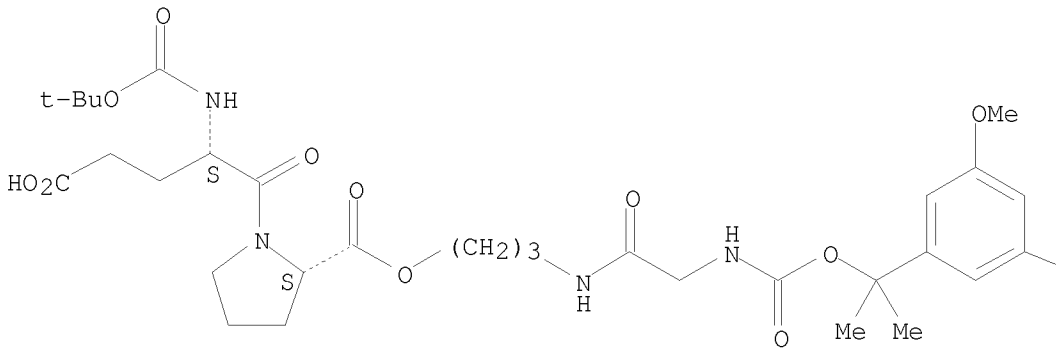
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L17 1810 ANSWERS   REGISTRY COPYRIGHT 2010 ACS on STN
IN   L-Proline, N-[(1,1-dimethylethoxy)carbonyl]-L-α-glutamyl-,
     2-[3-[[[[[1-(3,5-dimethoxyphenyl)-1-
     methylethoxy]carbonyl]amino]acetyl]amino]propyl] ester (9CI)
MF   C32 H48 N4 O12

Absolute stereochemistry.

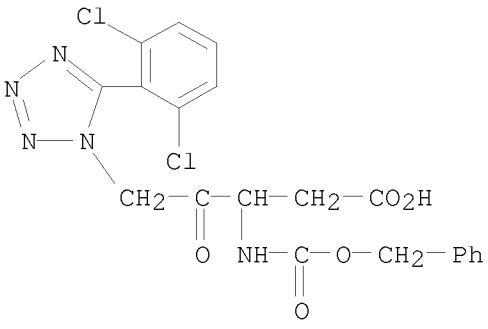
PAGE 1-A



PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

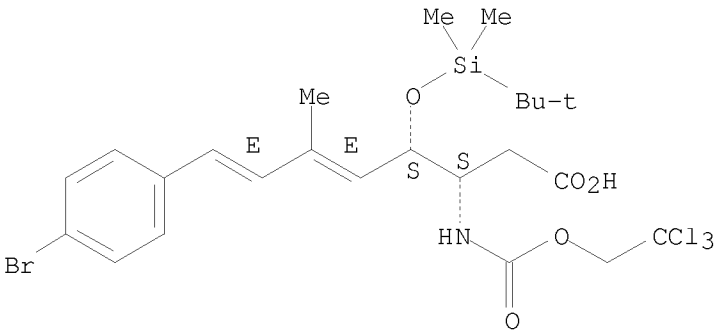
L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 1H-Tetrazole-1-pentanoic acid, 5-(2,6-dichlorophenyl)-γ-oxo-β-[[(phenylmethoxy)carbonyl]amino]-
MF C20 H17 Cl2 N5 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

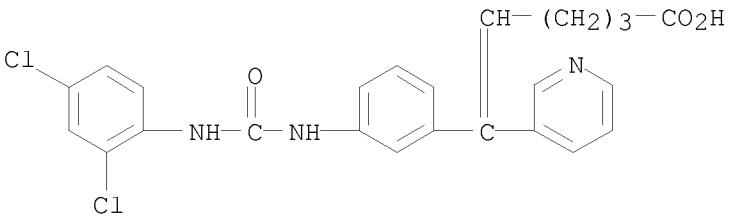
L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5,7-Octadienoic acid, 8-(4-bromophenyl)-4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-methyl-3-[[(2,2,2-trichloroethoxy)carbonyl]amino]-, [S-[R*,R*-(E,E)]]- (9CI)
MF C24 H33 Br Cl3 N O5 Si

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Hexenoic acid, 6-[3-[[[(2,4-dichlorophenyl)amino]carbonyl]amino]phenyl]-6-(3-pyridinyl)-
MF C24 H21 Cl2 N3 O3

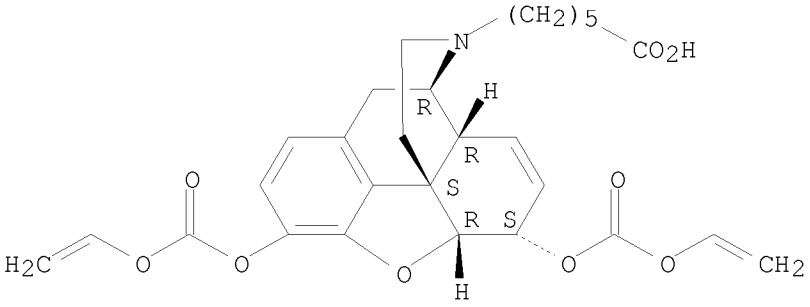


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Morphinan-17-hexanoic acid, 7,8-didehydro-4,5-epoxy-3,6-bis[[(ethenyloxy)carbonyl]oxy]-, (5α,6α)- (9CI)

MF C28 H31 N O9

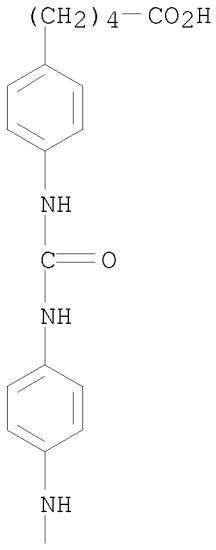
Absolute stereochemistry.

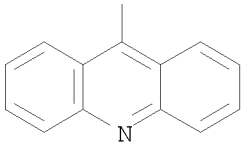


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepentanoic acid, 4-[[[[4-(9-acridinylamino)phenyl]amino]carbonyl]amino]-
MF C31 H28 N4 O3
CI COM

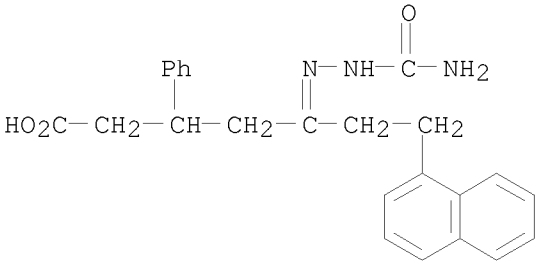
PAGE 1-A





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

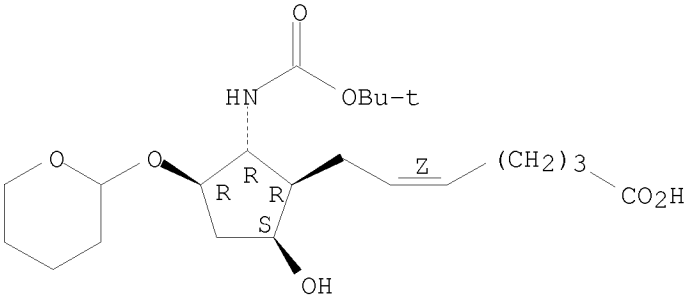
L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 1-Naphthaleneheptanoic acid, δ-[2-(aminocarbonyl)hydrazinylidene]-β-phenyl-
MF C24 H25 N3 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

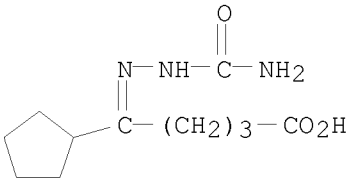
L17 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 5-Heptenoic acid, 7-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-5-hydroxy-3-[(tetrahydro-2H-pyran-2-yl)oxy]cyclopentyl]-, [1R-[1α(Z),2β,3α,5α]]- (9CI)
MF C22 H37 N O7

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

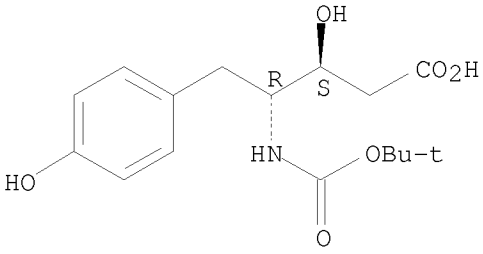
L17 1810 ANSWERS   REGISTRY COPYRIGHT 2010 ACS on STN
IN   Cyclopentanepentanoic acid, δ-[2-(aminocarbonyl)hydrazinylidene]-
MF   C11 H19 N3 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 1810 ANSWERS   REGISTRY COPYRIGHT 2010 ACS on STN
IN   D-erythro-Pentonic acid, 2,4,5-trideoxy-4-[[(1,1-
     dimethylethoxy)carbonyl]amino]-5-(4-hydroxyphenyl)-
MF   C16 H23 N O6

Absolute stereochemistry.

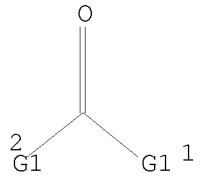


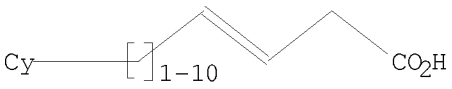
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> save temp l17 y2bondmstrset/a
Y2BONDMSTRSET/A IS NOT A VALID SAVED NAME
Enter the name you wish to use for the saved query,
answer set, or L-number list. The name must:
  1. Begin with a letter,
  2. Have 1-12 characters,
  3. Contain only letters (A-Z) and numbers (0-9),
  4. End with /Q for a query (search profile,
     structure, or screen set), /A for an answer
     set, or /L for an L-number list.
  5. Not already be in use as a saved name,
  6. Not be END, SAV, SAVE, SAVED
  7. Not have the form of an L-number (Lnnn).
ENTER NAME OR (END):end

```
=> save temp l17  y2bondmstr/a
ANSWER SET L17 HAS BEEN SAVED AS 'Y2BONDMSTR/A'

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10025947\10025947 unsatsy2bond.str

L18     STRUCTURE UPLOADED

=> d l18
L18 HAS NO ANSWERS
L18             STR
```

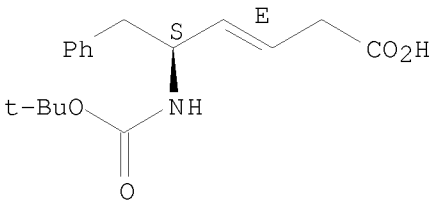





```
G1 O,N
G2 O,S,N,[@1-@2]


Structure attributes must be viewed using STN Express query preparation.


=> search l18 sss sam subset=l17
SAMPLE SUBSET SEARCH INITIATED 06:20:05 FILE 'REGISTRY'
SAMPLE SUBSET SCREEN SEARCH COMPLETED -        5 TO ITERATE

100.0% PROCESSED        5 ITERATIONS                                2 ANSWERS
SEARCH TIME: 00.00.01

PROJECTIONS (WITHIN SPECIFIED SUBSET):           ONLINE  **COMPLETE**
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET):            5 TO      234
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):               2 TO      124

L19           2 SEA SUB=L17 SSS SAM L18

=>  dscan
L20           0 DSCAN

=> d scan l19

L19  2 ANSWERS   REGISTRY  COPYRIGHT 2010 ACS on STN
IN   3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-phenyl-,
```

(3E,5S)-
MF C17 H23 N O4
CI COM

Absolute stereochemistry.
Double bond geometry as shown.

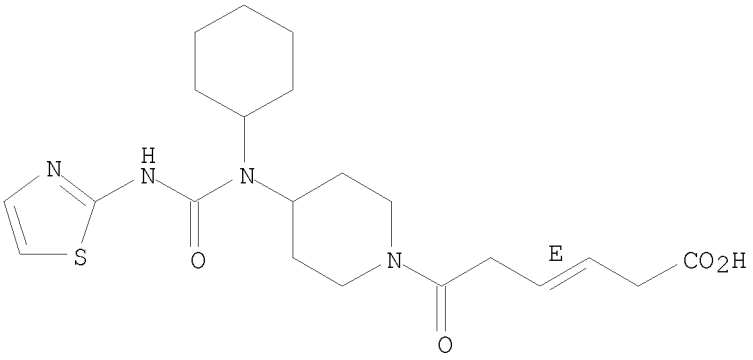


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L19 2 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 6-[4-[cyclohexyl[(2-thiazolylamino)carbonyl]amino]-1-piperidinyl]-6-oxo-, (3E)-
MF C21 H30 N4 O4 S

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> e 3-Hexenoic acid, 5-(((1,1-dimethylethoxy)carbonyl)amin)]-6-phenyl-,/cn
E1 1 3-HEXENOIC ACID, 5-((((5-METHYL-2-(1-METHYL-1-PHENYLETHYL)CYCLOHEXYL)OXY)CARBONYL)AMINO)-2-(2-METHYLPROPYL)-, (1R-(1.ALPHA.(2S*,3E,5R*),2B,5A))-/CN
E2 1 3-HEXENOIC ACID, 5-((((5-METHYL-2-(1-METHYL-1-PHENYLETHYL)CYCLOHEXYL)OXY)CARBONYL)AMINO)-2-(2-METHYLPROPYL)-, METHYL EST

```
                    ER, (1R-(1A(2S*,3E,5R*),2B,5A))-/CN
E3            0 --> 3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMIN)-6-P
                    HENYL-,/CN
E4            1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-, (
                    1,1-DIMETHYLETHYL)DIPHENYLSILYL ESTER, (R-(E))-/CN
E5            1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-, (
                    2,2-DIMETHYL-1-OXOPROPOXY)METHYL ESTER, (R)-/CN
E6            1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-, (
                    R-(E))-/CN
E7            1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-, (
                    S-(E))-/CN
E8            1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-, M
                    ETHYL ESTER, (R-(E))-/CN
E9            1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-, M
                    ETHYL ESTER, (S-(E))-/CN
E10           1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-2,4
                    -DIMETHYL-, METHYL ESTER, (S-(R*,S*-(E)))-/CN
E11           1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-2-(
                    1,1-DIMETHYLETHYL)-4-METHYL-, METHYL ESTER, (2S,3E,5S)-/CN
E12           1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-2-(
                    1,1-DIMETHYLETHYL)-6-(1-((2,4,6-TRIMETHYLPHENYL)SULFONYL)-1H
                    -INDOL-3-YL)-, METHYL ESTER, (2R,3E,5S)-/CN

=> e 3-Hexenoic acid, 5-(((1,1-dimethylethoxy)carbonyl)amino)]-6-phenyl-,/cn
E1            1     3-HEXENOIC ACID, 5-((((5-METHYL-2-(1-METHYL-1-PHENYLETHYL)CY
                    CLOHEXYL)OXY)CARBONYL)AMINO)-2-(2-METHYLPROPYL)-, (1R-(1.ALP
                    HA.(2S*,3E,5R*),2B,5A))-/CN
E2            1     3-HEXENOIC ACID, 5-((((5-METHYL-2-(1-METHYL-1-PHENYLETHYL)CY
                    CLOHEXYL)OXY)CARBONYL)AMINO)-2-(2-METHYLPROPYL)-, METHYL EST
                    ER, (1R-(1A(2S*,3E,5R*),2B,5A))-/CN
E3            0 --> 3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-6-
                    PHENYL-,/CN
E4            1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-, (
                    1,1-DIMETHYLETHYL)DIPHENYLSILYL ESTER, (R-(E))-/CN
E5            1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-, (
                    2,2-DIMETHYL-1-OXOPROPOXY)METHYL ESTER, (R)-/CN
E6            1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-, (
                    R-(E))-/CN
E7            1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-, (
                    S-(E))-/CN
E8            1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-, M
                    ETHYL ESTER, (R-(E))-/CN
E9            1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-, M
                    ETHYL ESTER, (S-(E))-/CN
E10           1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-2,4
                    -DIMETHYL-, METHYL ESTER, (S-(R*,S*-(E)))-/CN
E11           1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-2-(
                    1,1-DIMETHYLETHYL)-4-METHYL-, METHYL ESTER, (2S,3E,5S)-/CN
E12           1     3-HEXENOIC ACID, 5-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-2-(
                    1,1-DIMETHYLETHYL)-6-(1-((2,4,6-TRIMETHYLPHENYL)SULFONYL)-1H
                    -INDOL-3-YL)-, METHYL ESTER, (2R,3E,5S)-/CN

=> file caplus
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 214.30     545.86

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00      -1.70
```

FILE 'CAPLUS' ENTERED AT 06:23:09 ON 07 APR 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 7 Apr 2010 VOL 152 ISS 15
FILE LAST UPDATED: 6 Apr 2010 (20100406/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> l19
L21 13 L19

=> d l21 1-13 ti

L21 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Preparation of dicycloalkyl thiazolyl ureas as glucokinase activators

L21 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Preparation of dicycloalkyl thiazolyl ureas as glucokinase activators

L21 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI E-Olefin Dipeptide Isostere Incorporation into a Polypeptide Backbone
Enables Hydrogen Bond Perturbation: Probing the Requirements for
Alzheimer's Amyloidogenesis

L21 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Novel synthesis of a Phe-Gly E-alkene dipeptide isostere

L21 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Stereoselective Epoxidation of Phe-Gly and Phe-Phe Vinyl Isosteres

L21 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Novel L-Phe-Gly mimetics

L21 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Synthesis and biological activities of bradykinin analogs with
Ψ(E,CH:CH) and Ψ(CH2NH) isosteric peptide bond replacements

L21 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN

TI Monitoring of the chiral purity of Ψ(E,CH:CH) dipeptides using 2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl isothiocyanate

L21 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Preparation of retroviral protease binding peptides

L21 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Preparation of retroviral protease-inhibiting peptides and pharmaceutical compositions containing them

L21 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Renin inhibitors containing isosteric replacements of the amide bond connecting the P3 and P2 sites

L21 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Preparation of peptides as renin inhibitors

L21 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonhydrolyzable tripeptide analogs as angiotensin-converting enzyme inhibitors

=> d l21 8-13 ti fbib abs

L21 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Monitoring of the chiral purity of Ψ(E,CH:CH) dipeptides using 2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl isothiocyanate
AN 1991:515076 CAPLUS <<LOGINID::20100407>>
DN 115:115076
OREF 115:19753a,19756a
TI Monitoring of the chiral purity of Ψ(E,CH:CH) dipeptides using 2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl isothiocyanate
AU Devadder, S.; Couder, J.; Jaspers, H.; Ceusters, M.; Tourwe, D.; Van Binst, G.
CS Vrije Univ. Brussel, Brussels, B-1050, Belg.
SO Bulletin des Societes Chimiques Belges (1991), 100(5), 407-9
    CODEN: BSCBAG; ISSN: 0037-9646
DT Journal
LA English
AB Condensation of α-amino aldehydes Boc-X-H (Boc = Me3CO2C; X = Phe, Ala, Pro, 4-fluorophenylalanine) with Ph3P+CH2C.tplbond.CSiMe3 gave enynes, e.g. (E)-Boc-L-NHCHRCH:CHC.tplbond.CSiMe3 (R = CH2Ph, Me, CH2C6H4F-4), which underwent hydroboration and oxidation to give the title dipeptide isosteres (E)-Boc-L-NHCHRCH:CHCH2CO2H (I). The optical purities of I were checked by deblocking and condensation with the title isothiocyanate. Excellent baseline resolution was obtained for the derivs. of I while the corresponding adduct of (E)-Boc-L-NHCH2CH:CHCH(CH2Ph)CO2H was only partially resolved.

L21 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Preparation of retroviral protease binding peptides
AN 1991:240604 CAPLUS <<LOGINID::20100407>>
DN 114:240604
OREF 114:40421a,40424a
TI Preparation of retroviral protease binding peptides
IN Dreyer, Geoffrey Bainbridge; Huffman, William Francis; Meek, Thomas Downing; Metcalf, Brian Walter; Moore, Michael Lee
PA SmithKline Beckman Corp., USA
SO PCT Int. Appl., 214 pp.
    CODEN: PIXXD2
DT Patent

LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 9000399	A1	19900125	WO 1989-US2972		19890707
	W: AU, DK, FI, HU, JP, KR, NO					
				US 1988-216178	A	19880708
				US 1989-321937	A	19890310
				US 1989-374326	A	19890629
	AU 8939644	A	19900205	AU 1989-39644		19890707
				US 1988-216178	A	19880708
				US 1989-321937	A	19890310
				US 1989-374326	A	19890629
				WO 1989-US2972	A	19890707
	ZA 8905174	A	19900328	ZA 1989-5174		19890707
				US 1988-216178	A	19880708
	JP 03505875	T	19911219	JP 1989-507665		19890707
				US 1988-216178	A	19880708
				US 1989-321937	A	19890310
				US 1989-374326	A	19890629
				WO 1989-US2972	W	19890707
	HU 58764	A2	19920330	HU 1989-4124		19890707
				US 1988-216178	A	19880708
				US 1989-321937	A	19890310
				US 1989-374326	A	19890629
	DK 9100026	A	19910306	DK 1991-26		19910107
				US 1988-216178	A	19880708
				US 1989-321937	A	19890310
				US 1989-374326	A	19890629
				WO 1989-US2972	A	19890707
	NO 9100053	A	19910307	NO 1991-53		19910107
				US 1988-216178	A	19880708
				US 1989-321937	A	19890310
				US 1989-374326	A	19890629
				WO 1989-US2972	W	19890707
	NO 9200318	A	19910307	NO 1992-318		19920123
				US 1988-216178	A	19880708
				US 1989-321937	A	19890310
				US 1989-374326	A	19890629
				WO 1989-US2972	W	19890707
				NO 1991-53	A1	19910107
	NO 9200319	A	19910307	NO 1992-319		19920123
				US 1988-216178	A	19880708
				US 1989-321937	A	19890310
				US 1989-374326	A	19890629
				WO 1989-US2972	W	19890707
				NO 1991-53	A1	19910107

PATENT FAMILY INFORMATION:
FAN 1990:553045

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	EP 352000	A2	19900124	EP 1989-306995		19890710
	EP 352000	A3	19910717			
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE					
				US 1988-216178	A	19880708
				US 1989-321937	A	19890310
	ZA 8905174	A	19900328	ZA 1989-5174		19890707
				US 1988-216178	A	19880708
	CN 1039596	A	19900214	CN 1989-104699		19890708
				US 1988-216178	A	19880708
				US 1989-321937	A	19890310

OS MARPAT 114:240604
AB The peptides ABQaCbDcMWdXeYZ [I; A = H, Boc, Cbz, etc.; B = L- or D-amino acid(s), β-Ala, or covalent bond; Q = D- or L-Ser, -Thr, -Asp, etc.; C, D = Ala, β-Ala, Arg, Gly, etc.; W = Pro or Δ3-dehydro-Pro; X = Ala, Gly, Ile, Leu, etc.; Y = L- or D-amino acid(s) or covalent bond; Z = (modified) CO2H of amino acid residue Y, e.g. CONRR1, CO2R1, CH2OH; M = NHCHQ1CO, NHCHR2R3, Phe (4'-R4); R, R1 = H, alkyl; R2 = alkyl, alkylthioalkyl, alkoxyalkyl, etc.; R3 = (CH2)n, CO(CH2)mCO, etc.; R4 = H, halo, OR, NO2, NH2; Q1 = cyclohexylmethyl; a, b, c, d, e = 0, 1; n = 1, 2; m = 0-3] and I salts are prepared as mimics of the retrovirus protease polyprotein substrate. I bind to the viral proteases and are therefore useful for protease assay and therapeutical purposes. (2S)-N-[2-(2-N-tert-Butyloxycarbonyl)amino-3-phenyl]propyl-L-proline (preparation given) was coupled to Val-Val-BHA resin, using DCC 1-hydroxybenzotriazole in CH2Cl2-DMF mixture Peptide cleavage from the resin was carried out with HF and anisole, to give 2-(serylglutaminylasparaginyl)amino-3-phenylpropylpropylvalylvalinamide (II). II inhibited recombinant human immunodeficiency virus protease with an inhibition constant (Ki) of 1 μM.
OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Preparation of retroviral protease-inhibiting peptides and pharmaceutical compositions containing them
AN 1990:553045 CAPLUS <<LOGINID::20100407>>
DN 113:153045
OREF 113:26035a,26038a
TI Preparation of retroviral protease-inhibiting peptides and pharmaceutical compositions containing them
IN Dreyer, Geoffrey Bainbridge; Huffman, William Francis; Meek, Thomas Dowing; Metcalf, Brian Walter; Moore, Michael Lee
PA SmithKline Beckman Corp., USA
SO Eur. Pat. Appl., 118 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	EP 352000	A2	19900124	EP 1989-306995		19890710
	EP 352000	A3	19910717			
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE					
				US 1988-216178	A	19880708
				US 1989-321937	A	19890310
	ZA 8905174	A	19900328	ZA 1989-5174		19890707
				US 1988-216178	A	19880708
	CN 1039596	A	19900214	CN 1989-104699		19890708
				US 1988-216178	A	19880708
				US 1989-321937	A	19890310

PATENT FAMILY INFORMATION:
FAN 1991:240604

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 9000399	A1	19900125	WO 1989-US2972		19890707
	W: AU, DK, FI, HU, JP, KR, NO					
				US 1988-216178	A	19880708
				US 1989-321937	A	19890310
				US 1989-374326	A	19890629
	AU 8939644	A	19900205	AU 1989-39644		19890707

			US 1988-216178	A	19880708
			US 1989-321937	A	19890310
			US 1989-374326	A	19890629
			WO 1989-US2972	A	19890707
ZA 8905174	A	19900328	ZA 1989-5174		19890707
			US 1988-216178	A	19880708
JP 03505875	T	19911219	JP 1989-507665		19890707
			US 1988-216178	A	19880708
			US 1989-321937	A	19890310
			US 1989-374326	A	19890629
			WO 1989-US2972	W	19890707
HU 58764	A2	19920330	HU 1989-4124		19890707
			US 1988-216178	A	19880708
			US 1989-321937	A	19890310
			US 1989-374326	A	19890629
DK 9100026	A	19910306	DK 1991-26		19910107
			US 1988-216178	A	19880708
			US 1989-321937	A	19890310
			US 1989-374326	A	19890629
			WO 1989-US2972	A	19890707
NO 9100053	A	19910307	NO 1991-53		19910107
			US 1988-216178	A	19880708
			US 1989-321937	A	19890310
			US 1989-374326	A	19890629
			WO 1989-US2972	W	19890707
NO 9200318	A	19910307	NO 1992-318		19920123
			US 1988-216178	A	19880708
			US 1989-321937	A	19890310
			US 1989-374326	A	19890629
			WO 1989-US2972	W	19890707
			NO 1991-53	A1	19910107
NO 9200319	A	19910307	NO 1992-319		19920123
			US 1988-216178	A	19880708
			US 1989-321937	A	19890310
			US 1989-374326	A	19890629
			WO 1989-US2972	W	19890707
			NO 1991-53	A1	19910107

OS MARPAT 113:153045

AB A-B-(Q)a-(C)b-(D)c-M-(W)d-(X)e-Y-Z [I; A = H, protecting group, (protected) amino, alkanamido, etc.; B = D- or L-amino acid residue, e.g., β-Ala, bond; C, D = Glx, Asx, Ala, β-Ala, Arg, Gly, Ile, Leu, Lys, Ser, Thr, Val, Met, His; Asx = Asp, Asn; Glx = Glu, Gln; Q = D- or L-amino acid residue, e.g.; Ser, Thr, Asp, His, Cys, Arg, Ala; W = Pro, dehydro-Pro; X = Ala, Gly, Ile, Leu, Val, Met, Lys, Glx, Asx; Y = D- or L-amino acid residue(s), bond; Z = CO2H, alkoxycarbonyl, (substituted) amino, etc.; a-e = 0, 1, however, c and e may not simultaneously be 0; M = Cha, (substituted) Phe, alkylamino] and their pharmaceutically acceptable salts were prepared Many I, e.g., Ac-Ser-Gln-Ser-Tyr-Pro-Val-Val-NH2, were prepared by solid-phase or solution synthesis. 2-(Acetylserylglutaminylasparaginyl)amino-3-phenylpropylprolylvalylvalinamide (preparation given) showed an inhibition constant Ki of 14 μM in vitro against rHIV protease. Many pharmaceutical dosage forms containing 1 were formulated.

OSC.G 21 THERE ARE 21 CAPLUS RECORDS THAT CITE THIS RECORD (21 CITINGS)

L21 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN

TI Renin inhibitors containing isosteric replacements of the amide bond connecting the P3 and P2 sites

AN 1990:56684 CAPLUS <<LOGINID::20100407>>

DN 112:56684

OREF 112:9759a,9762a

TI Renin inhibitors containing isosteric replacements of the amide bond connecting the P3 and P2 sites
AU Kaltenbronn, James S.; Hudspeth, J. P.; Lunney, E. A.; Michniewicz, B. M.; Nicolaides, E. D.; Repine, J. T.; Roark, W. H.; Stier, M. A.; Tinney, F. J.; et al.
CS Parke-Davis Pharm. Res. Div., Warner-Lambert Co., Ann Arbor, MI, 48105, USA
SO Journal of Medicinal Chemistry (1990), 33(2), 838-45
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
OS CASREACT 112:56684
AB Renin inhibitors having 13 different isosteres connecting the P3 and P2 positions have been prepared Synthetic routes and in vitro activity exhibited by these compds. are discussed. The two most potent compds. contained the hydroxyethylene isostere.
OSC.G 43 THERE ARE 43 CAPLUS RECORDS THAT CITE THIS RECORD (44 CITINGS)

L21 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Preparation of peptides as renin inhibitors
AN 1989:439861 CAPLUS <<LOGINID::20100407>>
DN 111:39861
OREF 111:6805a,6808a
TI Preparation of peptides as renin inhibitors
IN Hudspeth, James P.; Kaltenbronn, James S.; Lunney, Elizabeth A.; Repine, Joseph T.; Roark, W. Howard; Stier, Michael A.; Tinney, Francis J.; Woo, Peter W. K.; Nicolaides, Ernest D.
PA Warner-Lambert Co., USA
SO U.S., 64 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 4743585	A	19880510	US 1986-920330	19861121
WO 8803927	A2	19880602	WO 1987-US2820	19871021
WO 8803927	A3	19880811		
W: AU, BB, BG, BR, DK, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, RO, SD, SU, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
			US 1986-920330	A1 19861121
AU 8783361	A	19880616	AU 1987-83361	19871021
			US 1986-920330	A 19861121
			WO 1987-US2820	A 19871021

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OS MARPAT 111:39861
AB R-X-An-Y-Bn-T-Cn-W-Dn-V-En-U [I; n = 0, 1, the compound must contain ≥1 link where n = 1; R = CO2CMe3, CO2CH2Ph, valeryl, isovaleryl, isobutyryl, Bz, HO2C(CH2)3CO, Me3CCO; X = Phe, Trp, cyclohexyl-Ala, 1-naphthyl-Ala, homo-Phe, Phe(Me5), Val, Ile, Leu; Y = bond, Phe, His, His(CH2OCH2Ph), Gly, phenyl-Gly, Leu, Val, Ile, Orn, Orn(phthaloyl), Arg, Arg(NO2); T = sta, benztine or cyclotine residue, Leu, cyclohexyl-Ala, Phe; W = bond, Leu, Gly, Ile; V = bond, Leu, Ile; U = NHCH2Ph, NHCH2C6H4(CH2NHCO2CH2Ph)-3, NH2, OMe, OEt, etc.; A = CH2NH, CH2NOH, CH2S, CH2SO, CH:CH, CH(OH)CH2, CH(OH)CH(OH), COCH2, etc.; B = CH2NH; C = CH2NH, CH(OH)CH2, CH(OH)CH:CHCH2; D = CH2NH; E = CH2NH, CH2NHCO2CH2Ph], useful for treatment of renin-associated hypertension and hyperaldosteronism, were prepared A solution of 0.5 H-Sta-Ala-Sta-NHCH2Ph, 0.5 [S-(E)]-5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-phenyl-3-hexenoic acid, and 0.5 mmol 1-hydroxybenzotriazole in DMF was cooled in ice and treated

with a solution of dicyclohexylcarbodiimide in DMF. After 1 h at 0°, the mixture was stirred at room temperature overnight to give 240 mg [5S-[5R,6R,9R,13R,14R-(E),20R]]-20-benzyl-3,8,11,16-tetraoxo-1-phenyl-2,7,10,15,21-pentaazadocos-18-en-22-oic acid 1,1-dimethylethyl ester [BOC-Phe[CH=CH]Gly-Sta-Ala-Sta-NHCH2Ph] (BOC = CO2CMe3). I in vitro inhibited renin with IC50 of 1.4 + 10-8 to 6.3 + 10-5 M.

OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2010 ACS on STN
TI Nonhydrolyzable tripeptide analogs as angiotensin-converting enzyme inhibitors
AN 1982:402688 CAPLUS <<LOGINID::20100407>>
DN 97:2688
OREF 97:551a,554a
TI Nonhydrolyzable tripeptide analogs as angiotensin-converting enzyme inhibitors
AU Natarajan, S.; Condon, M. E.; Nakane, M.; Reid, J.; Gordon, E. M.; Cushman, D. W.; Ondetti, M. A.
CS Squibb Inst. Med. Res., Princeton, NJ, 08540, USA
SO Pept.: Synth., Struct., Funct., Proc. Am. Pept. Symp., 7th (1981), 429-33. Editor(s): Rich, Daniel H.; Gross, Erhard. Publisher: Pierce Chem. Co., Rockford, Ill.
CODEN: 47LMAO
DT Conference
LA English
AB The hydrolyzable amide bond of suitable tripeptide substrates for angiotensin-converting enzyme (I) was modified to produce nonhydrolyzable moieties which acted as inhibitors. Modification of the amide bond to a ketomethylene moiety gave rise to the most potent inhibitor studied (II; PhCONHCH(CH2Ph)COCH2CH2CO-Pro-OH), with an I50 value (concentration for 50% of maximum inhibition) of 0.01 μM. The increased potency of II is apparently caused by resistance to hydrolysis by I, the specific interaction of the C:O group and functional residues of the active site of I, or a combination of both. The nonhydrolyzable analogs synthesized retained a number of the I-binding functional groups of the peptide substrate: C-terminal carboxyl, ultimate amide bond, and side chains for secondary interactions. Modification of the amide bond to a secondary amine to produce reduction analogs yielded compds. which retained tetrahedral N in the transition state. Replacement of the amide bond with olefinic groups or ketomethylene groups (other than II) produced inhibitors of much poorer potency than II. An analog with a CH2-S replacing the amide was also synthesized.

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	42.27	588.13
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.10	-6.80

FILE 'REGISTRY' ENTERED AT 06:27:11 ON 07 APR 2010

Property values tagged with IC are from the ZIC/VINITI data file

provided by InfoChem.

STRUCTURE FILE UPDATES: 5 APR 2010 HIGHEST RN 1217056-90-0
DICTIONARY FILE UPDATES: 5 APR 2010 HIGHEST RN 1217056-90-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> search l18 sss full subset=l17
FULL SUBSET SEARCH INITIATED 06:27:36 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 90 TO ITERATE

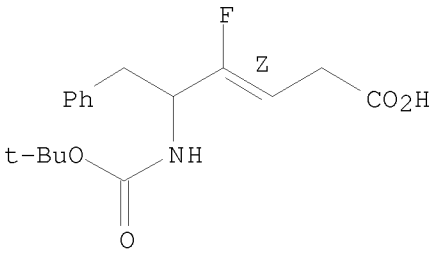
100.0% PROCESSED 90 ITERATIONS 39 ANSWERS
SEARCH TIME: 00.00.01

L22 39 SEA SUB=L17 SSS FUL L18

=> d scan

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-4-fluoro-6-phenyl-, (Z)- (9CI)
MF C17 H22 F N O4

Double bond geometry as shown.



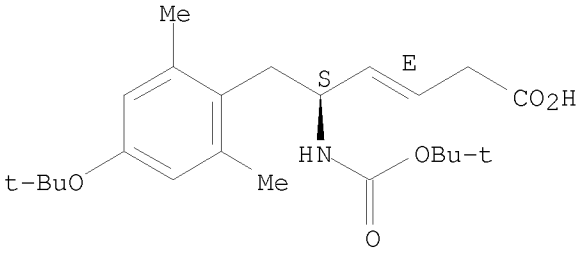
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-[4-(1,1-dimethylethoxy)-2,6-dimethylphenyl]-, [S-(E)]- (9CI)
MF C23 H35 N O5

Absolute stereochemistry.

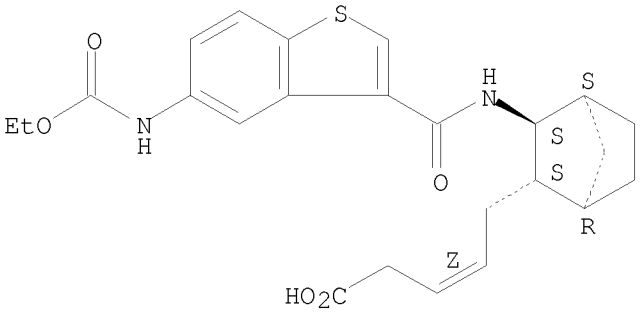
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-[(1R,2S,3S,4S)-3-[[[5-[(ethoxycarbonyl)amino]benzo[b]thien-3-yl]carbonyl]amino]bicyclo[2.2.1]hept-2-yl]-, (3Z)-
MF C24 H28 N2 O5 S

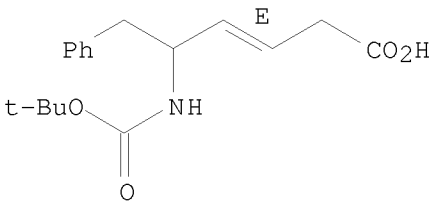
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-phenyl-, (E)- (9CI)
MF C17 H23 N O4

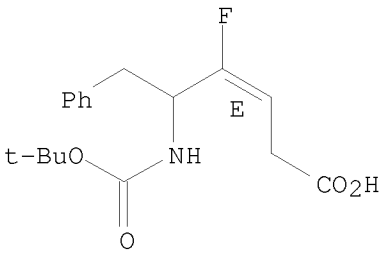
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-4-fluoro-6-phenyl-, (E)- (9CI)
MF C17 H22 F N O4

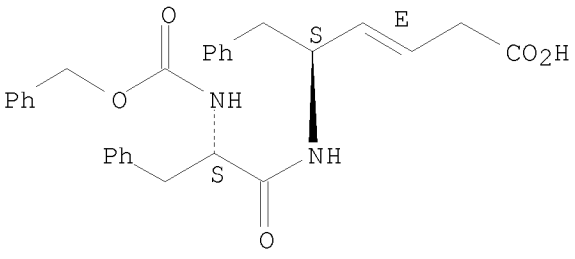
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[1-oxo-3-phenyl-2-[[(phenylmethoxy)carbonyl]amino]propyl]amino]-6-phenyl-, [S-[R*,R*-(E)]]- (9CI)
MF C29 H30 N2 O5

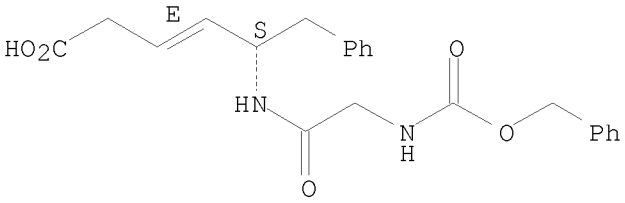
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 6-phenyl-5-[[2-
    [[(phenylmethoxy)carbonyl]amino]acetyl]amino]-, (3E,5S)-
MF C22 H24 N2 O5

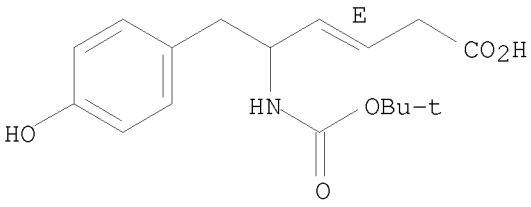
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-(4-
    hydroxyphenyl)-, (E)- (9CI)
MF C17 H23 N O5

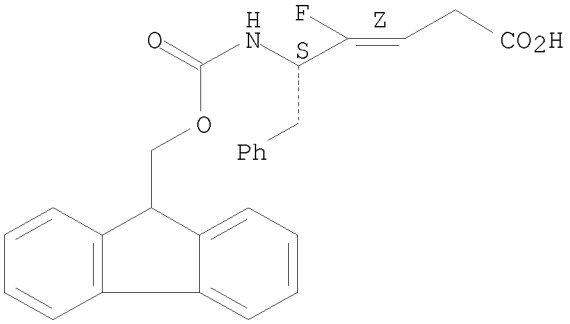
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-4-fluoro-6-
    phenyl-, (3Z,5S)-
MF C27 H24 F N O4

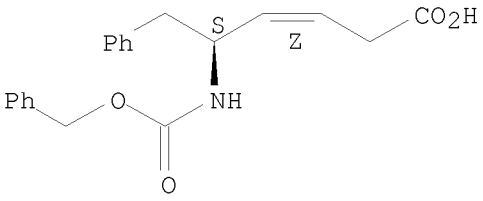
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 6-phenyl-5-[[(phenylmethoxy)carbonyl]amino]-, (3Z,5S)-
MF C20 H21 N O4

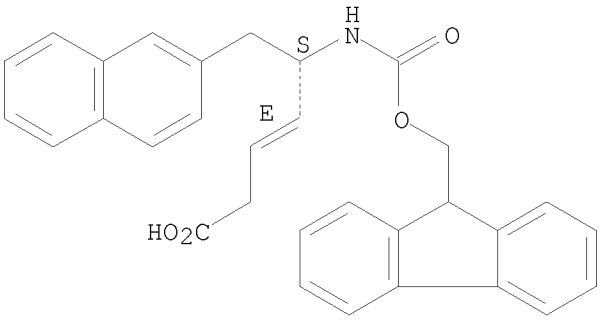
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-6-(2-naphthalenyl)-, (3E,5S)-
MF C31 H27 N O4

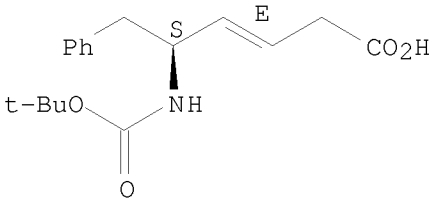
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-phenyl-, (3E,5S)-
MF C17 H23 N O4
CI COM

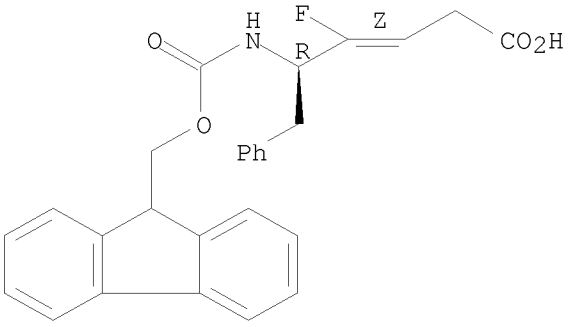
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-4-fluoro-6-phenyl-, [R-(Z)]- (9CI)
MF C27 H24 F N O4

Absolute stereochemistry.
Double bond geometry as shown.

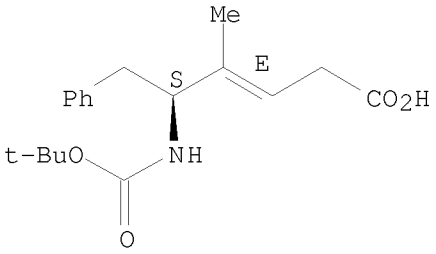


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-4-methyl-6-phenyl-

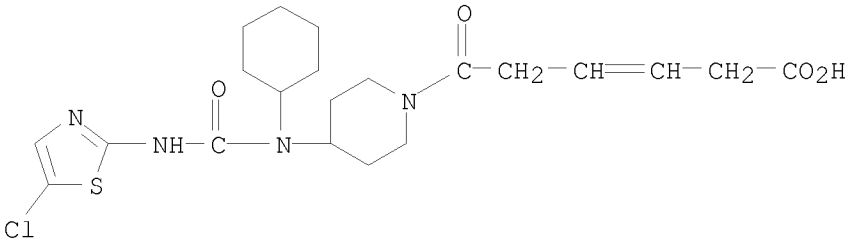
, [S-(E)]- (9CI)
MF C18 H25 N O4

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

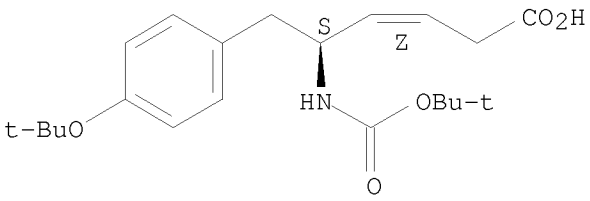
L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 6-[4-[[[(5-chloro-2-thiazolyl)amino]carbonyl]cyclohexylamino]-1-piperidinyl]-6-oxo-
MF C21 H29 Cl N4 O4 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-[4-(1,1-dimethylethoxy)phenyl]-, [S-(Z)]- (9CI)
MF C21 H31 N O5
CI COM

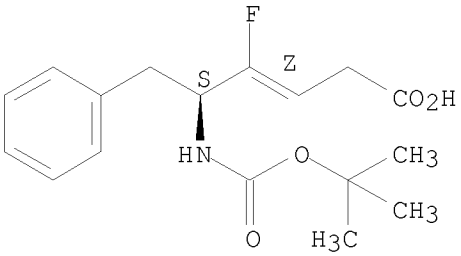
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-4-fluoro-6-phenyl-, [S-(Z)]- (9CI)
MF C17 H22 F N O4

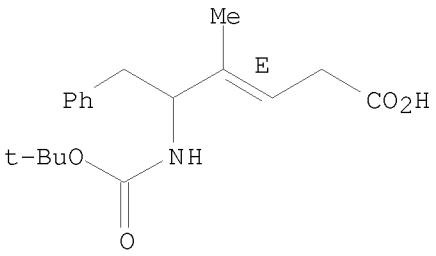
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-4-methyl-6-phenyl-, (E)- (9CI)
MF C18 H25 N O4

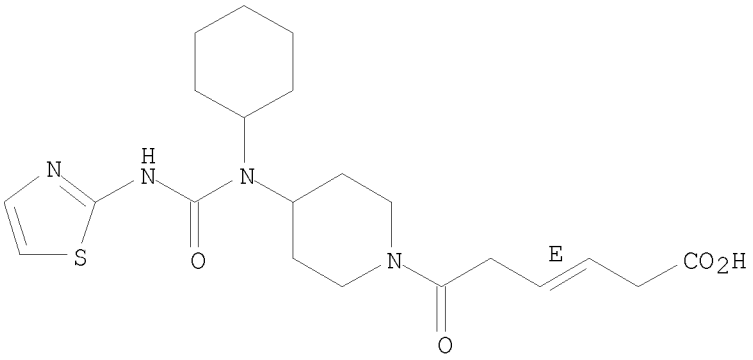
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 6-[4-[cyclohexyl[(2-thiazolylamino)carbonyl]amino]-1-piperidinyl]-6-oxo-, (3E)-
MF C21 H30 N4 O4 S

Double bond geometry as shown.

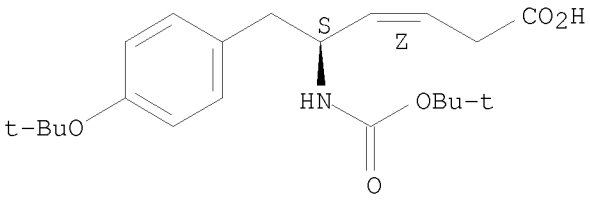


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

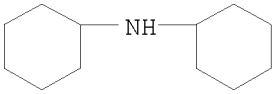
L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-[4-(1,1-dimethylethoxy)phenyl]-, [S-(Z)]-, compd. with N-cyclohexylcyclohexanamine (1:1) (9CI)
MF C21 H31 N O5 . C12 H23 N

CM 1

Absolute stereochemistry.
Double bond geometry as shown.

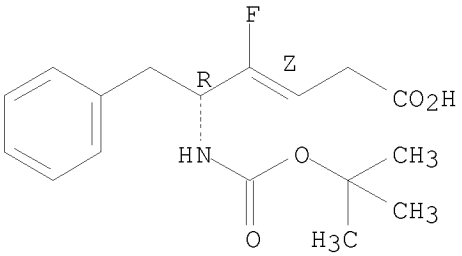


CM 2



L22 39 ANSWERS   REGISTRY COPYRIGHT 2010 ACS on STN
IN   3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-4-fluoro-6-phenyl-, [R-(Z)]- (9CI)
MF   C17 H22 F N O4

Absolute stereochemistry.
Double bond geometry as shown.

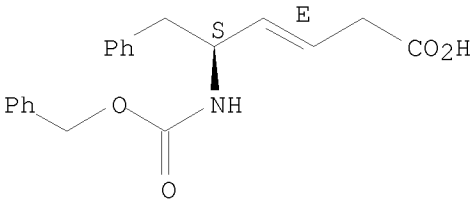


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L22 39 ANSWERS   REGISTRY COPYRIGHT 2010 ACS on STN
IN   3-Hexenoic acid, 6-phenyl-5-[[(phenylmethoxy)carbonyl]amino]-, [S-(E)]- (9CI)
MF   C20 H21 N O4

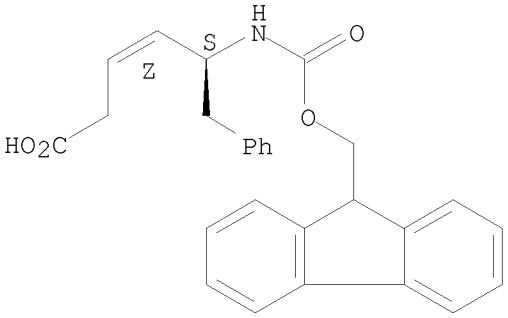
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS   REGISTRY COPYRIGHT 2010 ACS on STN
IN   3-Hexenoic acid, 5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-6-phenyl-, (3Z,5S)-
MF   C27 H25 N O4

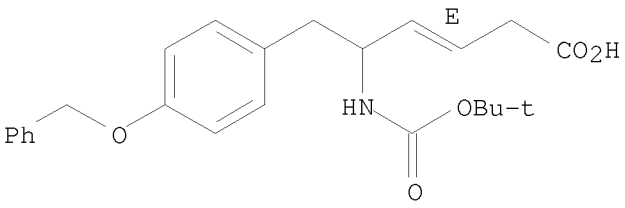
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-[4-(phenylmethoxy)phenyl]-, (3E)-
MF C24 H29 N O5

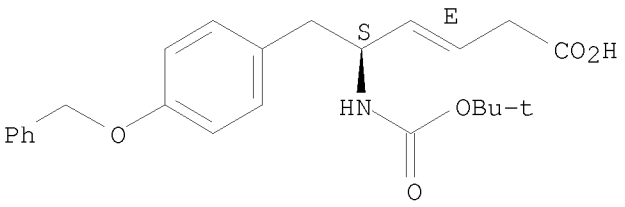
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-[4-(phenylmethoxy)phenyl]-, [S-(E)]- (9CI)
MF C24 H29 N O5

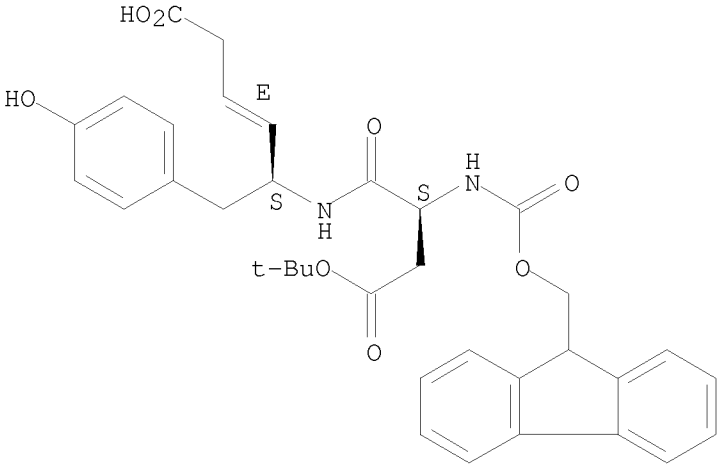
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(2S)-4-(1,1-dimethylethoxy)-2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-1,4-dioxobutyl]amino]-6-(4-hydroxyphenyl)-, (3E,5S)-
MF C35 H38 N2 O8

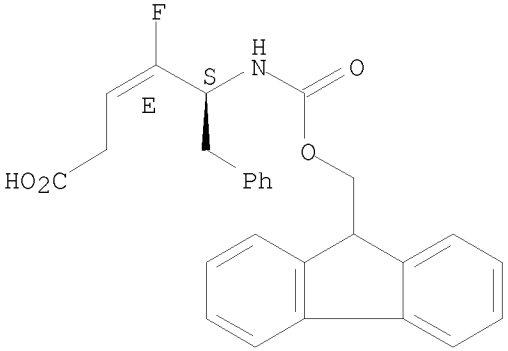
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-4-fluoro-6-phenyl-, (3E,5S)-
MF C27 H24 F N O4

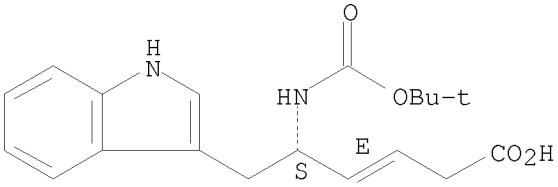
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-(1H-indol-3-yl)-, [S-(E)]- (9CI)
MF C19 H24 N2 O4

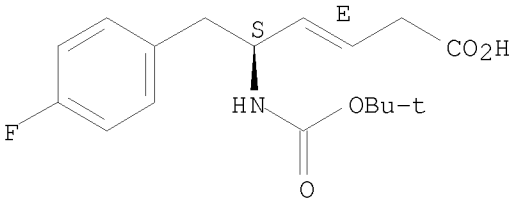
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-(4-fluorophenyl)-, [S-(E)]- (9CI)
MF C17 H22 F N O4
CI COM

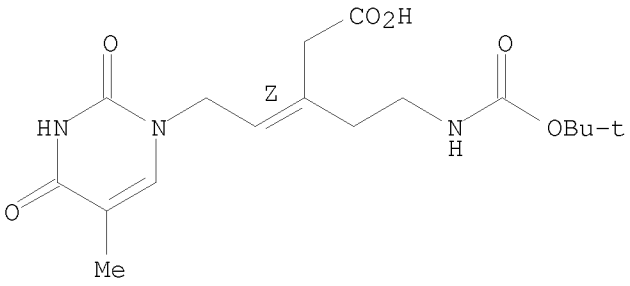
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-3-[2-[[(1,1-dimethylethoxy)carbonyl]amino]ethyl]-, (3Z)-
MF C17 H25 N3 O6

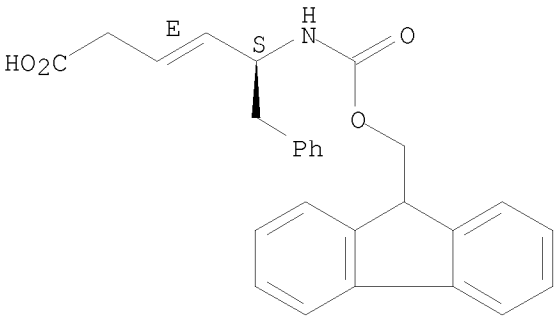
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-6-phenyl-, (3E,5S)-
MF C27 H25 N O4

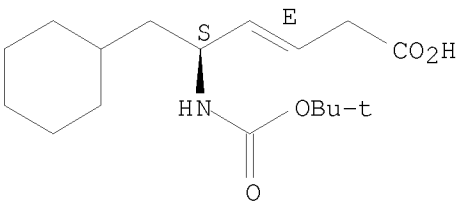
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 6-cyclohexyl-5-[[(1,1-dimethylethoxy)carbonyl]amino]-, [S-(E)]- (9CI)
MF C17 H29 N O4

Absolute stereochemistry.
Double bond geometry as shown.

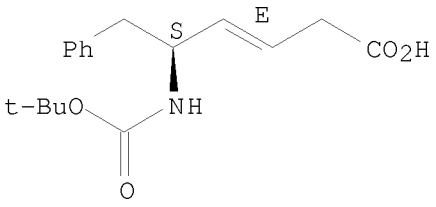


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

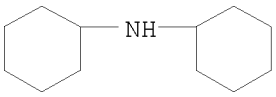
L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-phenyl-, [S-(E)]-, compd. with N-cyclohexylcyclohexanamine (1:1) (9CI)
MF C17 H23 N O4 . C12 H23 N

CM 1

Absolute stereochemistry.
Double bond geometry as shown.

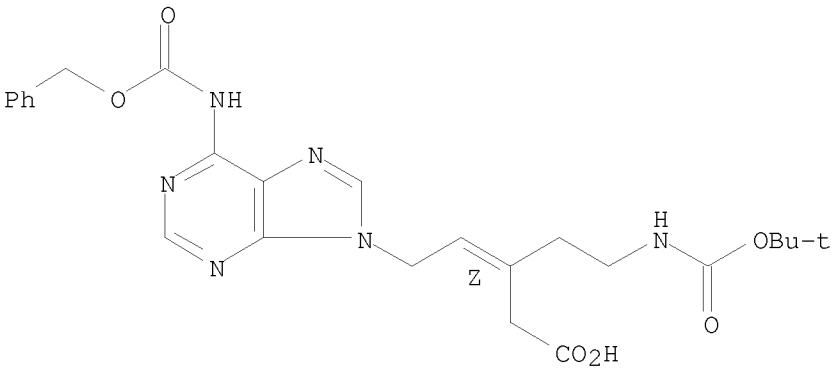


CM 2



L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 3-[2-[[(1,1-dimethylethoxy)carbonyl]amino]ethyl]-5-[6-[[(phenylmethoxy)carbonyl]amino]-9H-purin-9-yl]-, (3Z)-
MF C25 H30 N6 O6

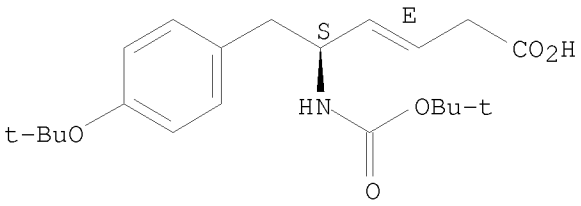
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS   REGISTRY COPYRIGHT 2010 ACS on STN
IN   3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-[4-(1,1-dimethylethoxy)phenyl]-, [S-(E)]- (9CI)
MF   C21 H31 N O5
CI   COM

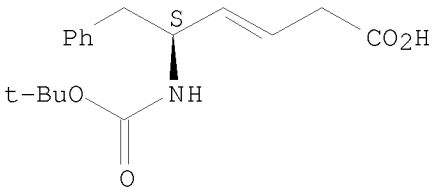
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 39 ANSWERS   REGISTRY COPYRIGHT 2010 ACS on STN
IN   3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-phenyl-, (S)- (9CI)
MF   C17 H23 N O4

Absolute stereochemistry.
Double bond geometry unknown.

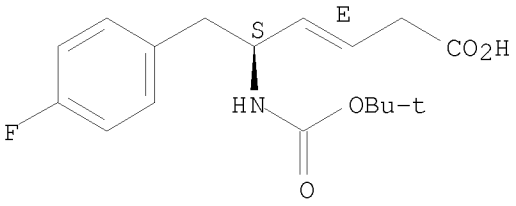


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

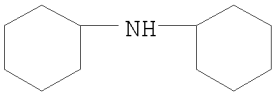
L22 39 ANSWERS   REGISTRY COPYRIGHT 2010 ACS on STN
IN   3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-(4-fluorophenyl)-, [S-(E)]-, compd. with N-cyclohexylcyclohexanamine (1:1) (9CI)
MF   C17 H22 F N O4 . C12 H23 N

     CM   1

Absolute stereochemistry.
Double bond geometry as shown.

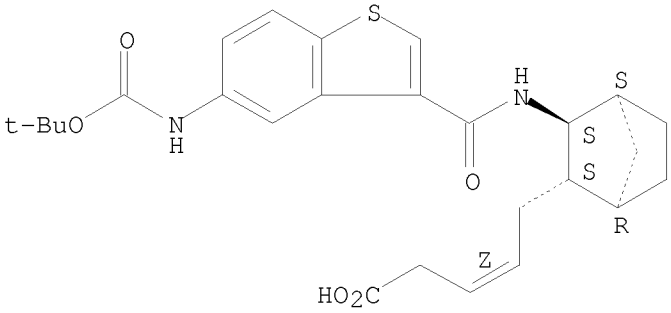


CM 2



L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-[(1R,2S,3S,4S)-3-[[[5-[[(1,1-dimethylethoxy)carbonyl]amino]benzo[b]thien-3-yl]carbonyl]amino]bicyclo[2.2.1]hept-2-yl]-, (3Z)-
MF C26 H32 N2 O5 S

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

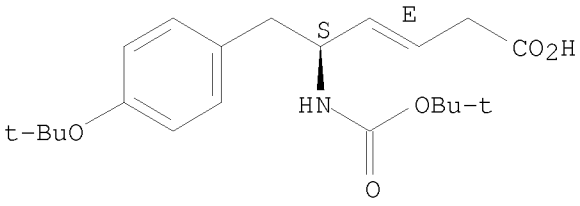


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

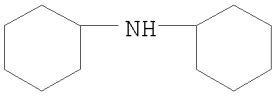
L22 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-[4-(1,1-dimethylethoxy)phenyl]-, [S-(E)]-, compd. with N-cyclohexylcyclohexanamine (1:1) (9CI)
MF C21 H31 N O5 . C12 H23 N

CM 1

Absolute stereochemistry.
Double bond geometry as shown.



CM 2



ALL ANSWERS HAVE BEEN SCANNED

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	48.93	637.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-6.80

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:31:39 ON 07 APR 2010

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

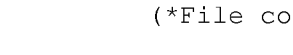
* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JAN 12	Match STN Content and Features to Your Information Needs, Quickly and Conveniently
NEWS	3	JAN 25	Annual Reload of MEDLINE database
NEWS	4	FEB 16	STN Express Maintenance Release, Version 8.4.2, Is Now Available for Download
NEWS	5	FEB 16	Derwent World Patents Index (DWPI) Revises Indexing of Author Abstracts
NEWS	6	FEB 16	New FASTA Display Formats Added to USGENE and PCTGEN
NEWS	7	FEB 16	INPADOCDB and INPAFAMDB Enriched with New Content

```
                    and Features
 NEWS  8  FEB 16  INSPEC Adding Its Own IPC codes and Author's E-mail
                  Addresses
 NEWS  9  APR 02  CAS Registry Number Crossover Limits Increased to
                  500,000 in Key STN Databases
 NEWS 10  APR 02  PATDPAFULL: Application and priority number formats
                  enhanced
 NEWS 11  APR 02  DWPI: New display format ALLSTR available
 NEWS 12  APR 02  New Thesaurus Added to Derwent Databases for Smooth
                  Sailing through U.S. Patent Codes
 NEWS 13  APR 02  EMBASE Adds Unique Records from MEDLINE, Expanding
                  Coverage back to 1948
 NEWS 14  APR 07  CA/CAplus CLASS Display Streamlined with Removal of
                  Pre-IPC 8 Data Fields
 NEWS 15  APR 07  50,000 World Traditional Medicine (WTM) Patents Now
                  Available in CAplus
 NEWS 16  APR 07  MEDLINE Coverage Is Extended Back to 1947

 NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,
              AND CURRENT DISCOVER FILE IS DATED 15 JANUARY 2010.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN customer
  agreement.  This agreement limits use to scientific research.  Use
  for software development or design, implementation of commercial
  gateways, or use of CAS and STN data in the building of commercial
  products is prohibited and may result in loss of user privileges
  and other penalties.

* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 08:45:40 ON 07 APR 2010

=> logoff hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.22       0.22

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:46:11 ON 07 APR 2010

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'HOME' AT 08:53:37 ON 07 APR 2010
FILE 'HOME' ENTERED AT 08:53:37 ON 07 APR 2010

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
```

```
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.22       0.22

=> file reg
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                    0.44       0.44

FILE 'REGISTRY' ENTERED AT 08:54:18 ON 07 APR 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2010 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    5 APR 2010  HIGHEST RN 1217056-90-0
DICTIONARY FILE UPDATES:   5 APR 2010  HIGHEST RN 1217056-90-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> e heptanoic acid, 7-phenyl-/cn
E1            1     HEPTANOIC ACID, 7-PHENOXY-, SILYL ESTER/CN
E2            1     HEPTANOIC ACID, 7-PHENOXY-, TRIMETHYLSILYL ESTER/CN
E3            2 --> HEPTANOIC ACID, 7-PHENYL-/CN
E4            1     HEPTANOIC ACID, 7-PHENYL-, 1-ETHYL ESTER/CN
E5            1     HEPTANOIC ACID, 7-PHENYL-, PHENYL ESTER/CN
E6            1     HEPTANOIC ACID, 7-PIPERIDINO-/CN
E7            1     HEPTANOIC ACID, 7-PURIN-6-YLAMINO-/CN
E8            1     HEPTANOIC ACID, 7-SELENINO-/CN
E9            1     HEPTANOIC ACID, 7-SULFANILAMIDO-/CN
E10           1     HEPTANOIC ACID, 7-SULFO-, 1-METHYL ESTER/CN
E11           1     HEPTANOIC ACID, 7-SULFO-, 1-METHYL ESTER, SODIUM SALT/CN
E12           1     HEPTANOIC ACID, 7-SULFO-, 1-METHYL ESTER, SODIUM SALT (1:1)/
                    CN

=> e3
L1            2 "HEPTANOIC ACID, 7-PHENYL-"/CN

=> d l1

L1   ANSWER 1 OF 2  REGISTRY  COPYRIGHT 2010 ACS on STN
RN   40228-90-8  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Benzeneheptanoic acid  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Heptanoic acid, 7-phenyl- (6CI, 7CI)
OTHER NAMES:
CN   7-Phenylheptanoic acid
```

MF C13 H18 O2
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

97 REFERENCES IN FILE CA (1907 TO DATE)
98 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.58	9.02

FILE 'CAPLUS' ENTERED AT 08:55:21 ON 07 APR 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 7 Apr 2010 VOL 152 ISS 15
FILE LAST UPDATED: 6 Apr 2010 (20100406/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

CAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

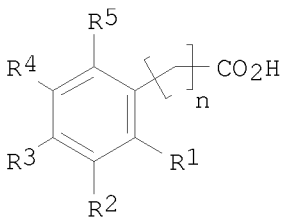
=> l1/thu
99 L1
1229755 THU/RL
L2 3 L1/THU
(L1 (L) THU/RL)

=> d l2 1-3 ti fbib abs

L2 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2010 ACS on STN
TI Phenylalkylcarboxylic acid delivery agents for biologically active compounds
AN 2008:1128306 CAPLUS <<LOGINID::20100407>>
DN 149:355552
TI Phenylalkylcarboxylic acid delivery agents for biologically active compounds
IN Pusztay, Stephen V.; Gscheidner, David
PA Emisphere Technologies, Inc., USA
SO PCT Int. Appl., 49pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2008112368	A2	20080918	WO 2008-US53429	20080208
WO 2008112368	A3	20081120		
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
			US 2007-888927P	P 20070208
CA 2676930	A1	20080918	CA 2008-2676930	20080208
			US 2007-888927P	P 20070208
			WO 2008-US53429	W 20080208
EP 2114145	A2	20091111	EP 2008-782758	20080208
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR				
			US 2007-888927P	P 20070208
			WO 2008-US53429	W 20080208
MX 2009008542	A	20091110	MX 2009-8542	20090807
			US 2007-888927P	P 20070208
			WO 2008-US53429	W 20080208
CN 101616583	A	20091230	CN 2008-80004481	20090807
			US 2007-888927P	P 20070208
			WO 2008-US53429	W 20080208

OS MARPAT 149:355552
GI



I

AB The present invention provides phenylalkylcarboxylic acid compds. of general formula I (wherein n is 1-12, and R1-R5 are independently H, C1-C6 alkyl, C2-C4 alkenyl, halo, C1-C4 alkoxy, hydroxy, C6-C14 aryloxy, or C1-C6 alkylhalo group) and compns. containing such compds. which facilitate the delivery of biol. active agents. Some of the phenylalkylcarboxylic acids are purchased and others are synthesized. Example compound 4-(4-methoxyphenyl)butanoic acid (II) was prepared by reacting anisole and succinic anhydride to give 4-(4-methoxyphenyl)-4-oxobutyric acid which was converted to II. Oral delivery of human zinc insulin (0.5 mg/kg) with II (200 mg/kg) as the delivery agent caused a 43.6 % reduction in blood glucose levels in rats.

L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2010 ACS on STN
TI Induction of histone acetylation and inhibition of growth by phenyl alkanoic acids and structurally related molecules
AN 2004:450167 CAPLUS <<LOGINID::20100407>>
DN 142:32394
TI Induction of histone acetylation and inhibition of growth by phenyl alkanoic acids and structurally related molecules
AU Lea, Michael A.; Shareef, Asif; Sura, Monali; desBordes, Charles
CS Department of Biochemistry and Molecular Biology, UMDNJ-New Jersey Medical School, Newark, NJ, 07103, USA
SO Cancer Chemotherapy and Pharmacology (2004), 54(1), 57-63
CODEN: CCPHDZ; ISSN: 0344-5704
PB Springer-Verlag
DT Journal
LA English
AB Purpose. A structure-activity study was undertaken to determine the influence of side chain length of Ph alkanoic acids and the degree of unsatn. of Ph alkenoic acids on the induction of histone acetylation and inhibition of cancer cell proliferation. Materials and methods. Studies on cell proliferation were performed with DS19 mouse erythroleukemic cells, PC-3 human prostate cancer cells and Caco-2 human colon cancer cells. Actions on histone deacetylase and the induction of histone acetylation were compared for 4-phenylbutyrate and structurally related mols. Results. Increasing inhibition of cell proliferation by Ph alkanoic acids together with a decrease in cells in S phase and an increase in apoptotic cells was observed with increased chain length between four and ten carbons. Introduction of double bonds into the side chain was associated with increased growth inhibition. In contrast, 4-phenylbutyrate was a more potent inhibitor of histone deacetylase and inducer of histone acetylation than the other Ph alkanoic acids examined Conclusions. In comparison with the action of 4-phenylbutyrate, actions other than inhibition of histone deacetylase appear to be more important for growth inhibition by longer chain Ph alkanoic and Ph alkenoic acids.
OSC.G 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2010 ACS on STN
TI Skin permeation model of phenylalkylcarboxylic homologous acids and their enhancer effect on percutaneous penetration of 5-fluorouracil
AN 1996:491380 CAPLUS <<LOGINID::20100407>>
DN 125:204211
OREF 125:38056h,38057a
TI Skin permeation model of phenylalkylcarboxylic homologous acids and their enhancer effect on percutaneous penetration of 5-fluorouracil
AU Lopez, A.; Morant, M. J.; Guzman, D.; Borras-Blasco, J.; Diez-Sales, O.; Herraez, M.

CS Departamento de Farmacia y Tecnologia Farmaceutica, Facultad de Farmacia, Universidad de Valencia, Avda. Vicente Andres Estelles s/n. 46100 Burjassot, Valencia, Spain
SO International Journal of Pharmaceutics (1996), 139(1,2), 205-213
CODEN: IJPHDE; ISSN: 0378-5173
PB Elsevier
DT Journal
LA English
AB This study was conducted primarily to establish the rat skin penetration model of acidic homologous series with a wide range of lipophilicity (from phenylpropionic acid to phenylcaprylic acid), and to compare it with other homologous series (alkylanilines) by means of adequate permeability-partition correlations, in order to find out if there could be a common model of penetration for all the compds. The influence of pH on acid penetration through the skin was also analyzed. Standard in vitro skin permeation methods using rat skin were used to determine the permeability coeffs. of phenylalkylcarboxylic acids in the conditions established. Membrane/water partition coeffs. were also assessed, and the correlations between permeability and partition values were established. A linear relationship between the logarithms of permeabilities of penetrants and the corresponding membrane/water partition coeffs. was found. The apparent discordance between this type of correlation and the probabilistic (i.e. parabolic) model previously established with other homologous series (alkylanilines) is attributed to a self-enhancing effect on penetration in the case of the more lipophilic compds. of the series. In fact, when 5-FU was used as a polar model permeant, pretreatment of the membrane with phenylenanthic acid gave it an enhancer ratio of 4.5, thus confirming its enhancer effect.
OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	23.61	32.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.55	-2.55

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:09:34 ON 07 APR 2010

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

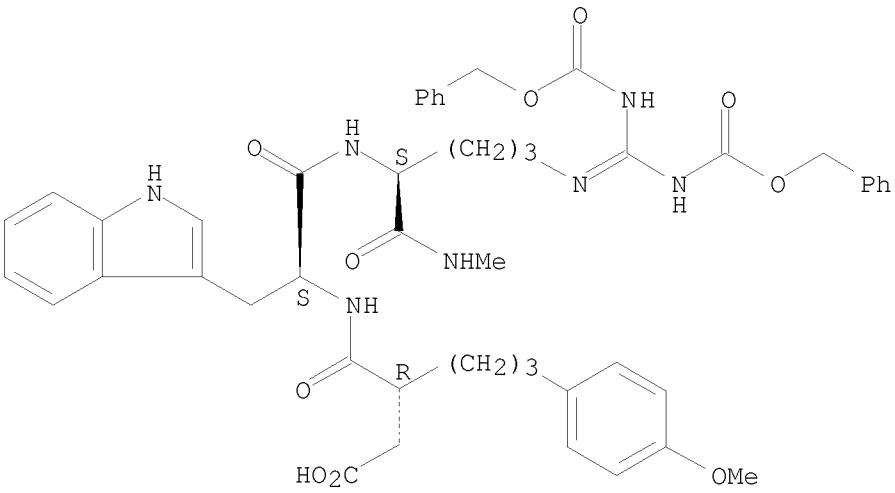
PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 09:49:45 ON 07 APR 2010
FILE 'CAPLUS' ENTERED AT 09:49:45 ON 07 APR 2010

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	23.61	32.63

```
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)       SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                   -2.55      -2.55

=> file reg
COST IN U.S. DOLLARS                             SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                   24.11      33.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)       SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                   -2.55      -2.55

FILE 'REGISTRY' ENTERED AT 09:50:08 ON 07 APR 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2010 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    5 APR 2010  HIGHEST RN 1217056-90-0
DICTIONARY FILE UPDATES:   5 APR 2010  HIGHEST RN 1217056-90-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> FIL STNGUIDE
COST IN U.S. DOLLARS                             SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.49      33.62

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)       SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00      -2.55

FILE 'STNGUIDE' ENTERED AT 09:50:25 ON 07 APR 2010
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr  2, 2010 (20100402/UP).

=> DIS SAVED
NAME             CREATED      NOTES/TITLE
--------------   -----------  -----------------------------------
ALKCARBFNDS/A    24 JUL 2006  1991 ANSWERS IN FILE REGISTRY
ANTBACCORE/A     TEMP         325 ANSWERS IN FILE REGISTRY
MASTERSET/A      TEMP         24701 ANSWERS IN FILE REGISTRY
```

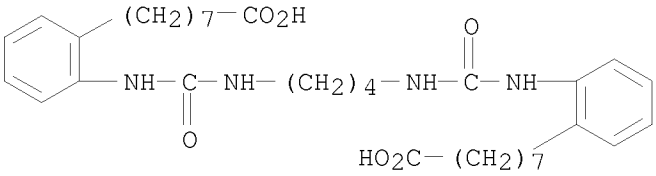
```
MSTRUNSATS/A     TEMP         222 ANSWERS IN FILE REGISTRY
PLYETHRAMINS/A   13 JUL 2007  299 ANSWERS IN FILE REGISTRY
PPARAWCMPDS/A    29 OCT 2009  2046 ANSWERS IN FILE REGISTRY
RAWRXNS/A        22 SEP 2008  36 ANSWERS IN FILE CASREACT
REFNDFNDS/A      24 JUL 2006  1255 ANSWERS IN FILE REGISTRY
TBUTCARBFNDS/A   24 JUL 2006  736 ANSWERS IN FILE REGISTRY
THIAFINDS/A      06 FEB 2007  113 ANSWERS IN FILE REGISTRY
TWOAMINOPOLY/Q   16 APR 2001  UPLOADED STRUCTURE
Y2BONDMSTR/A     TEMP         1810 ANSWERS IN FILE REGISTRY


=> DIS SAVED/S
NO SAVED SDI REQUESTS


=> FIL REGISTRY
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.07      33.69

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00      -2.55

FILE 'REGISTRY' ENTERED AT 09:51:15 ON 07 APR 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2010 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    5 APR 2010  HIGHEST RN 1217056-90-0
DICTIONARY FILE UPDATES:   5 APR 2010  HIGHEST RN 1217056-90-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> ACT Y2BONDMSTR/A
L3              STR
L4         1810 SEA FILE=REGISTRY SSS FUL L3

=> d scan

L4   1810 ANSWERS   REGISTRY  COPYRIGHT 2010 ACS on STN
IN   L-Ornithinamide, N-[(2R)-2-(carboxymethyl)-5-(4-methoxyphenyl)-1-
     oxopentyl]-L-tryptophyl-N5-[bis[[(phenylmethoxy)carbonyl]amino]methylene]-
     N-methyl-
MF   C48 H55 N7 O10
```

Absolute stereochemistry.



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L4 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C34 H50 N4 O6



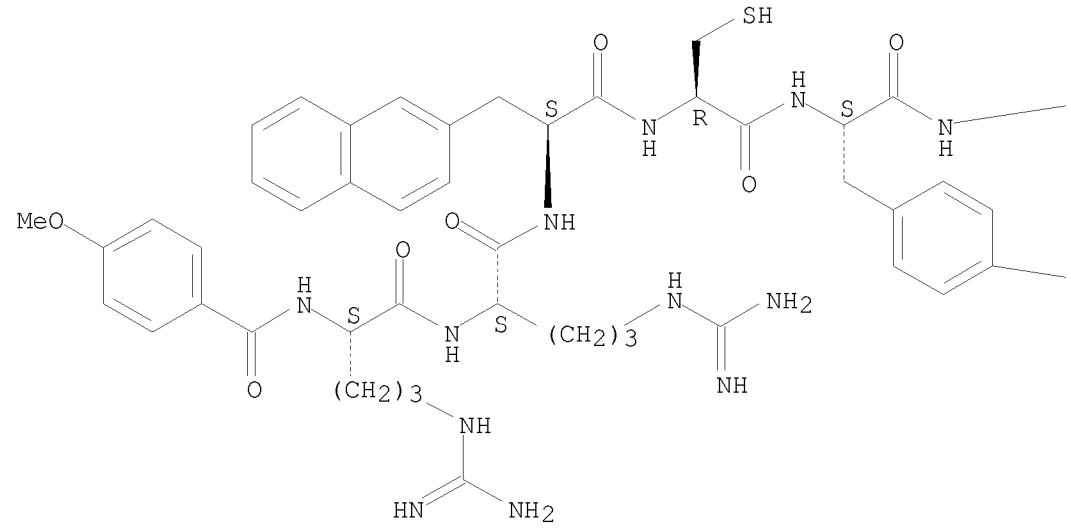
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
SQL 14
MF C97 H144 N32 O22 S2

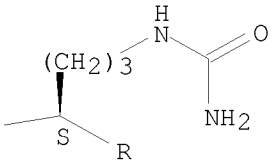
RELATED SEQUENCES AVAILABLE WITH SEQLINK

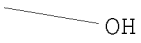
Absolute stereochemistry.

PAGE 1-A

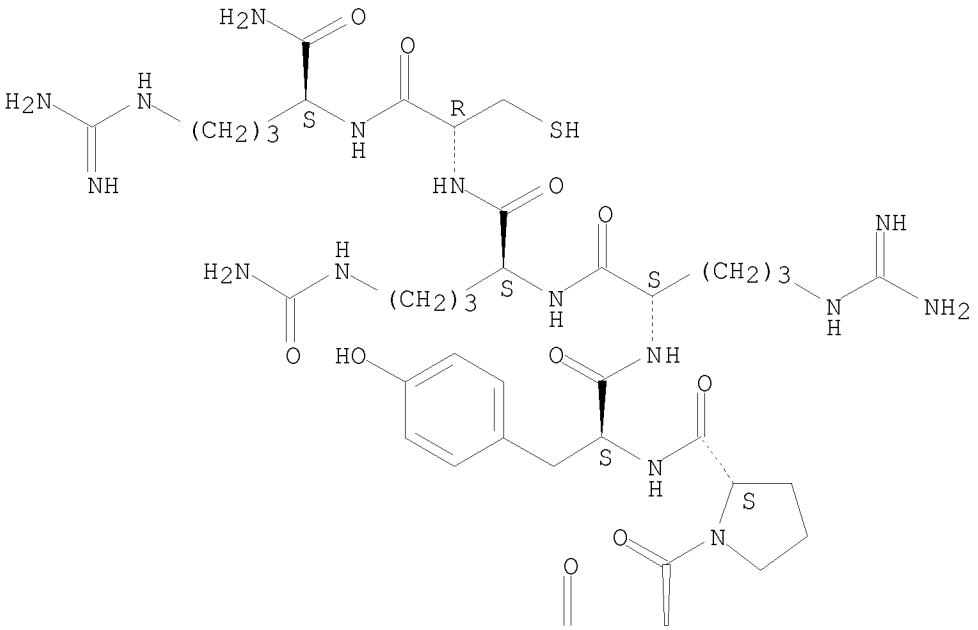


PAGE 1-B

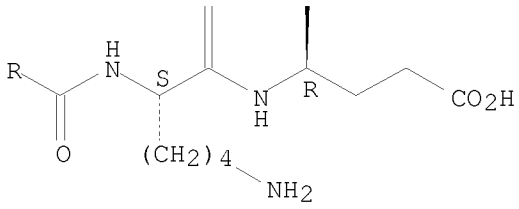




PAGE 2-A



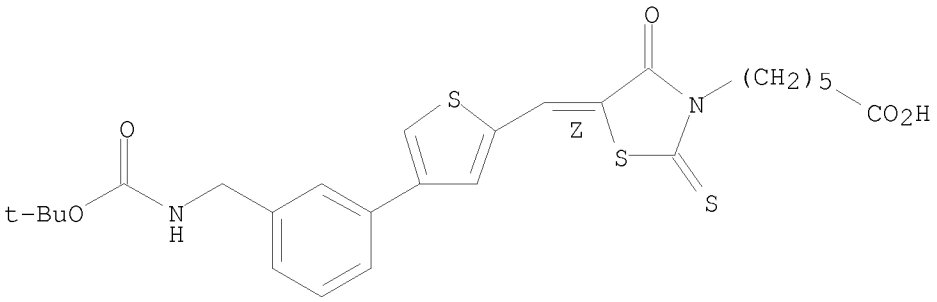
PAGE 3-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Thiazolidinehexanoic acid, 5-[[4-[3-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]phenyl]-2-thienyl]methylene]-4-oxo-2-thioxo-, (5Z)-
MF C26 H30 N2 O5 S3

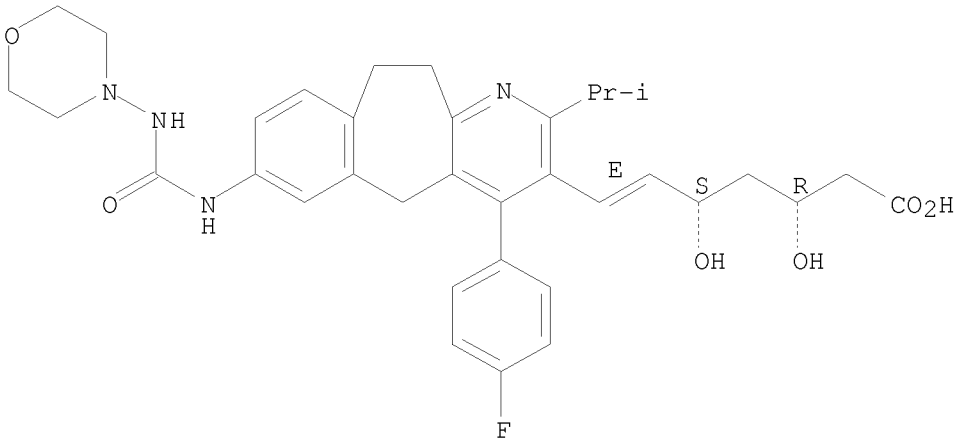
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 6-Heptenoic acid, 7-[4-(4-fluorophenyl)-10,11-dihydro-2-(1-methylethyl)-7-[[(4-morpholinylamino)carbonyl]amino]-5H-benzo[4,5]cyclohepta[1,2-b]pyridin-3-yl]-3,5-dihydroxy-, (3R,5S,6E)-
MF C35 H41 F N4 O6

Absolute stereochemistry.
Double bond geometry as shown.

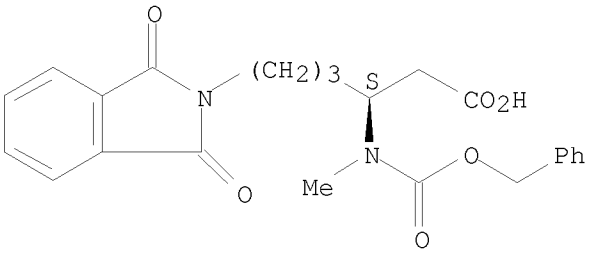


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

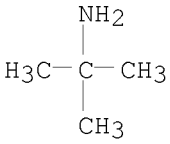
L4 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 2H-Isoindole-2-hexanoic acid, 1,3-dihydro-β-[methyl[(phenylmethoxy)carbonyl]amino]-1,3-dioxo-, compd. with 2-methyl-2-propanamine (1:1), (βS)-
MF C23 H24 N2 O6 . C4 H11 N

CM 1

Absolute stereochemistry.

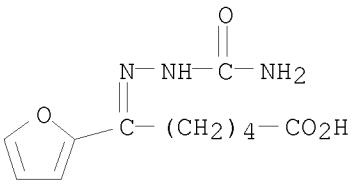


CM 2



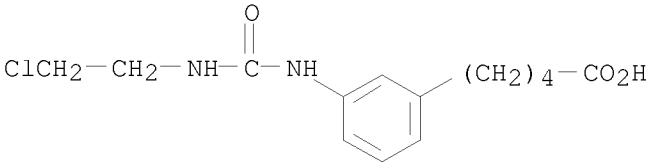
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 2-Furanhexanoic acid, ε-[2-(aminocarbonyl)hydrazinylidene]-
MF C11 H15 N3 O4



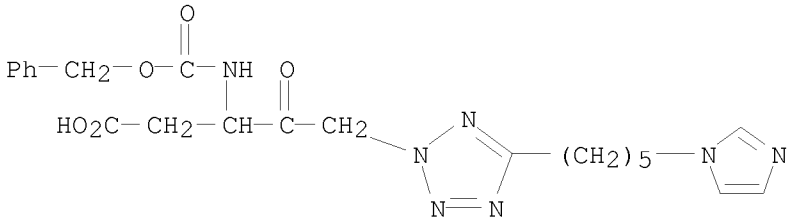
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzenepentanoic acid, 3-[[[(2-chloroethyl)amino]carbonyl]amino]-
MF C14 H19 Cl N2 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 2H-Tetrazole-2-pentanoic acid, 5-[5-(1H-imidazol-1-yl)pentyl]-γ-oxo-β-[[(phenylmethoxy)carbonyl]amino]-
MF C22 H27 N7 O5
CI COM



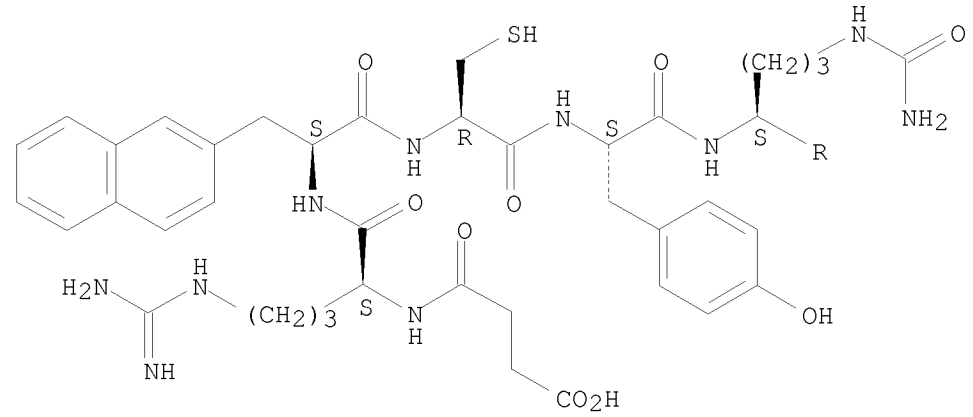
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

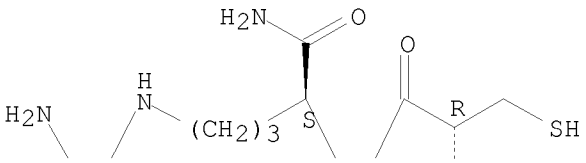
L4 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN L-Argininamide, N2-(3-carboxy-1-oxopropyl)-L-arginyl-3-(2-naphthalenyl)-L-alanyl-L-cysteinyl-L-tyrosyl-N5-(aminocarbonyl)-L-ornithyl-L-lysyl-D-α-glutamyl-L-prolyl-L-tyrosyl-L-arginyl-N5-(aminocarbonyl)-L-ornithyl-L-cysteinyl-
SQL 13
MF C87 H130 N28 O22 S2

RELATED SEQUENCES AVAILABLE WITH SEQLINK

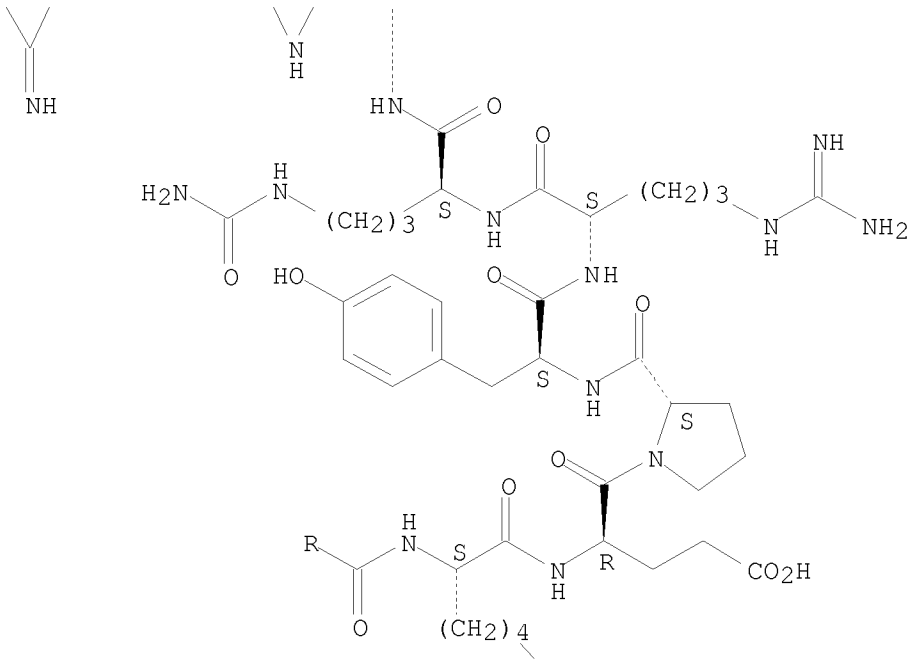
Absolute stereochemistry.

PAGE 1-A





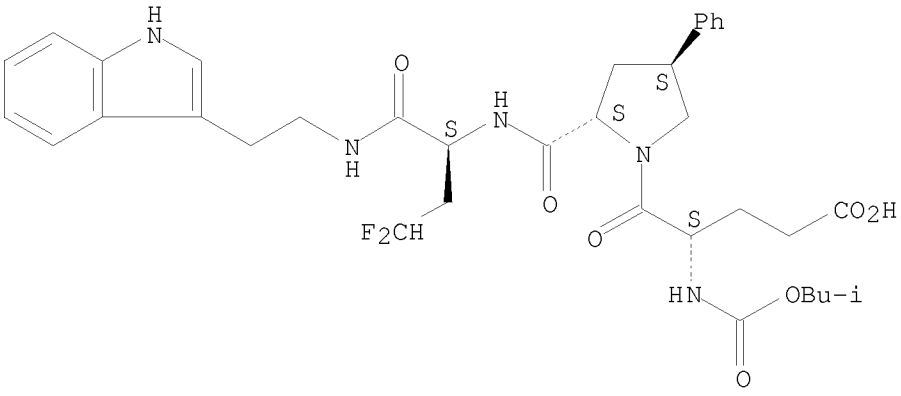
PAGE 2-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 1810 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Butanamide, N-[(2-methylpropoxy)carbonyl]-L-α-glutamyl-(4S)-4-phenyl-L-prolyl-2-amino-4,4-difluoro-N-[2-(1H-indol-3-yl)ethyl]-, (2S)- (9CI)
MF C35 H43 F2 N5 O7

Absolute stereochemistry.



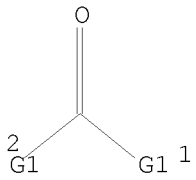
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

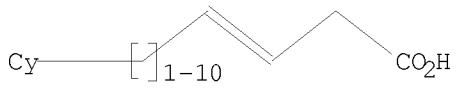
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10025947\10025947 unsatsy2bond.str

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR



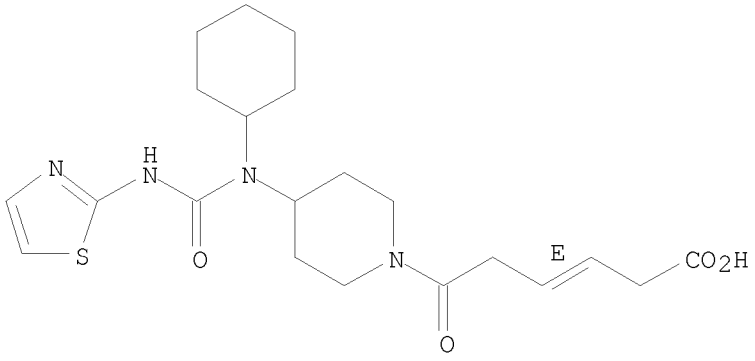


G1 O,N

G2 O,S,N,[@1-@2]

Structure attributes must be viewed using STN Express query preparation.

```
=> search l5 sss sam
SAMPLE SEARCH INITIATED 09:53:05 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     1204 TO ITERATE

100.0% PROCESSED     1204 ITERATIONS                                 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         21999 TO    26161
PROJECTED ANSWERS:                2 TO      124

L6            2 SEA SSS SAM L5

=> d scan

L6   2 ANSWERS   REGISTRY  COPYRIGHT 2010 ACS on STN
IN   3-Hexenoic acid, 6-[4-[cyclohexyl[(2-thiazolylamino)carbonyl]amino]-1-
     piperidinyl]-6-oxo-, (3E)-
MF   C21 H30 N4 O4 S

Double bond geometry as shown.
```

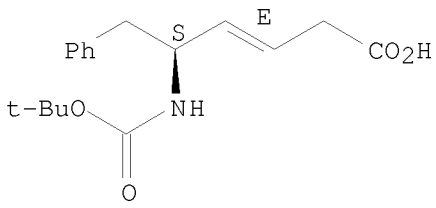


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6 2 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-phenyl-, (3E,5S)-
MF C17 H23 N O4
CI COM

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search l5 sss full
FULL SEARCH INITIATED 09:54:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 23846 TO ITERATE

100.0% PROCESSED 23846 ITERATIONS 39 ANSWERS
SEARCH TIME: 00.00.03

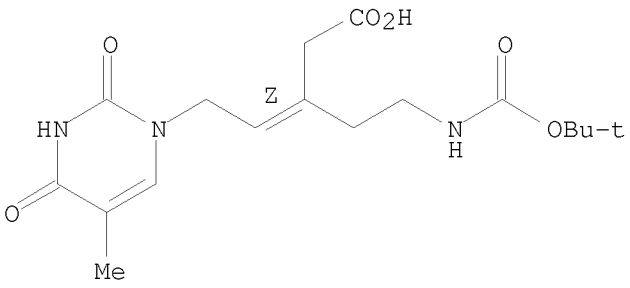
L7 39 SEA SSS FUL L5

=> d scan

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)-3-

[2-[[(1,1-dimethylethoxy)carbonyl]amino]ethyl]-, (3Z)-
MF C17 H25 N3 O6

Double bond geometry as shown.

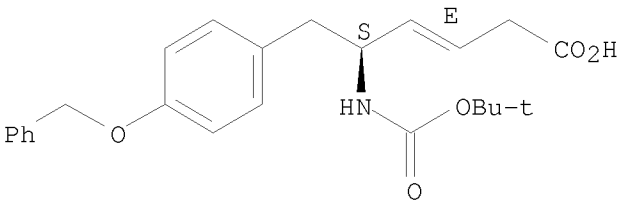


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):39

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-[4-(phenylmethoxy)phenyl]-, [S-(E)]- (9CI)
MF C24 H29 N O5

Absolute stereochemistry.
Double bond geometry as shown.

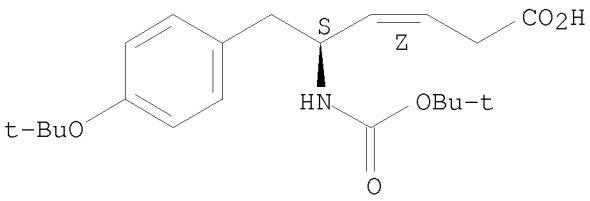


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

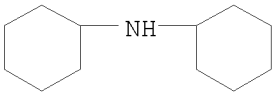
L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-[4-(1,1-dimethylethoxy)phenyl]-, [S-(Z)]-, compd. with N-cyclohexylcyclohexanamine (1:1) (9CI)
MF C21 H31 N O5 . C12 H23 N

CM 1

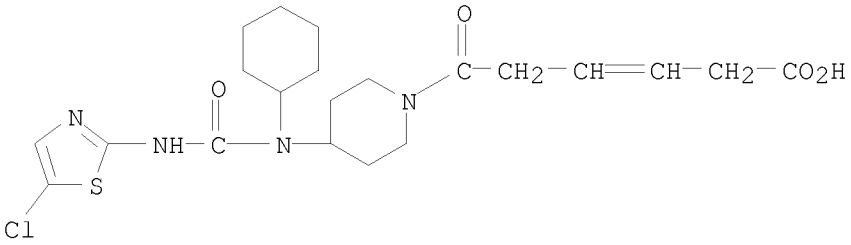
Absolute stereochemistry.
Double bond geometry as shown.



CM 2



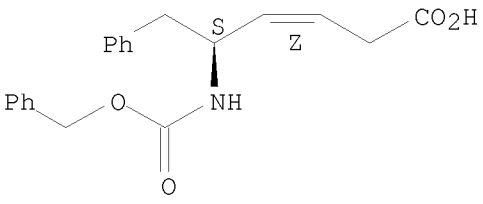
L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 6-[4-[[[(5-chloro-2-thiazolyl)amino]carbonyl]cyclohexylamino]-1-piperidinyl]-6-oxo-
MF C21 H29 Cl N4 O4 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 6-phenyl-5-[[(phenylmethoxy)carbonyl]amino]-, (3Z,5S)-
MF C20 H21 N O4

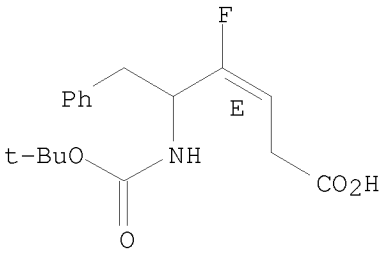
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-4-fluoro-6-phenyl-, (E)- (9CI)
MF C17 H22 F N O4

Double bond geometry as shown.

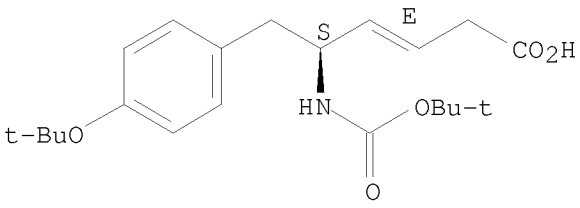


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

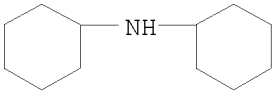
L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-[4-(1,1-dimethylethoxy)phenyl]-, [S-(E)]-, compd. with N-cyclohexylcyclohexanamine (1:1) (9CI)
MF C21 H31 N O5 . C12 H23 N

CM 1

Absolute stereochemistry.
Double bond geometry as shown.



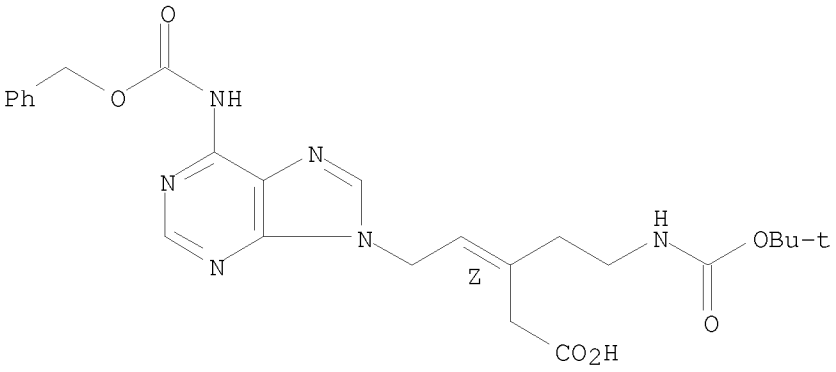
CM 2



L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN

IN 3-Pentenoic acid, 3-[2-[[(1,1-dimethylethoxy)carbonyl]amino]ethyl]-5-[6-[[(phenylmethoxy)carbonyl]amino]-9H-purin-9-yl]-, (3Z)-
MF C25 H30 N6 O6

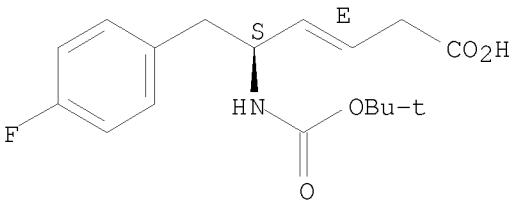
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-(4-fluorophenyl)-, [S-(E)]- (9CI)
MF C17 H22 F N O4
CI COM

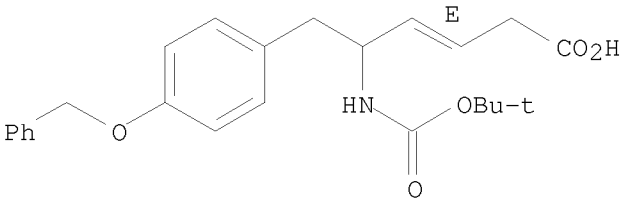
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-[4-(phenylmethoxy)phenyl]-, (3E)-
MF C24 H29 N O5

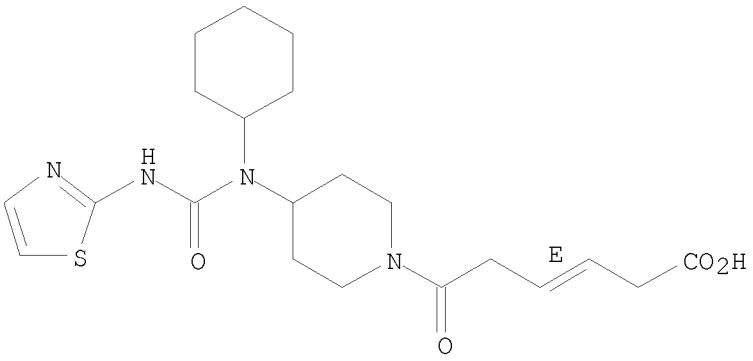
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 6-[4-[cyclohexyl[(2-thiazolylamino)carbonyl]amino]-1-piperidinyl]-6-oxo-, (3E)-
MF C21 H30 N4 O4 S

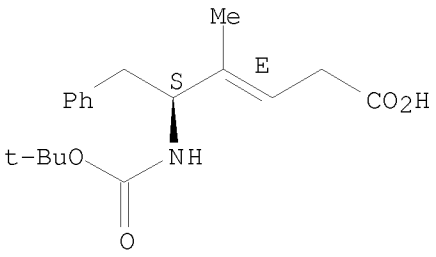
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-4-methyl-6-phenyl-, [S-(E)]- (9CI)
MF C18 H25 N O4

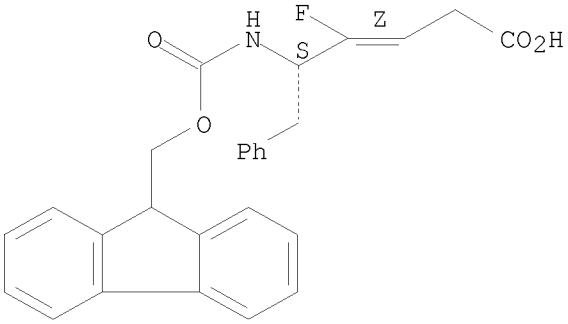
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-4-fluoro-6-phenyl-, (3Z,5S)-
MF C27 H24 F N O4

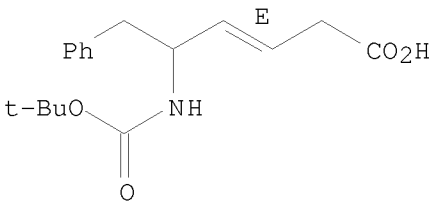
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-phenyl-, (E)-(9CI)
MF C17 H23 N O4

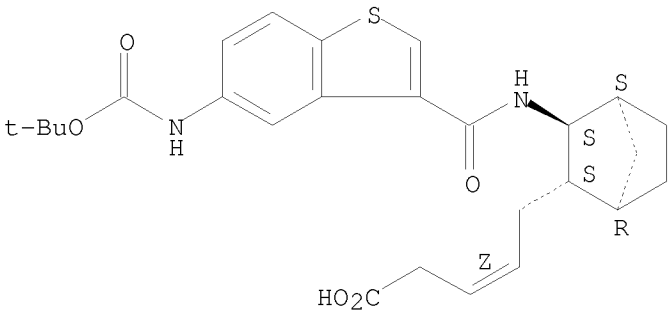
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-[(1R,2S,3S,4S)-3-[[[5-[[(1,1-dimethylethoxy)carbonyl]amino]benzo[b]thien-3-yl]carbonyl]amino]bicyclo[2.2.1]hept-2-yl]-, (3Z)-
MF C26 H32 N2 O5 S

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

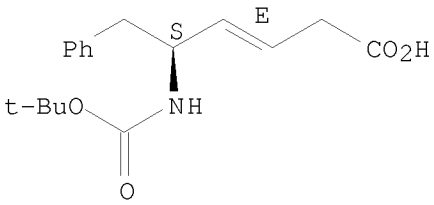


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

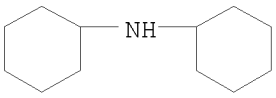
L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-phenyl-, [S-(E)]-, compd. with N-cyclohexylcyclohexanamine (1:1) (9CI)
MF C17 H23 N O4 . C12 H23 N

CM 1

Absolute stereochemistry.
Double bond geometry as shown.

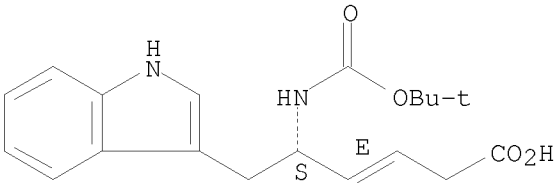


CM 2



L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-(1H-indol-3-yl)-, [S-(E)]- (9CI)
MF C19 H24 N2 O4

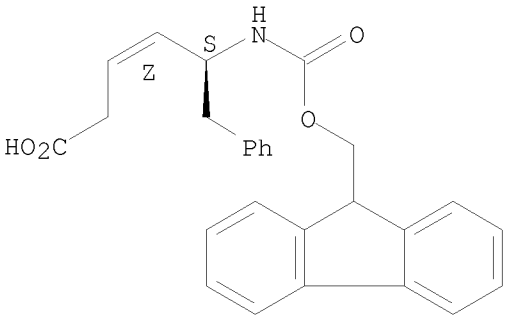
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-6-phenyl-, (3Z,5S)-
MF C27 H25 N O4

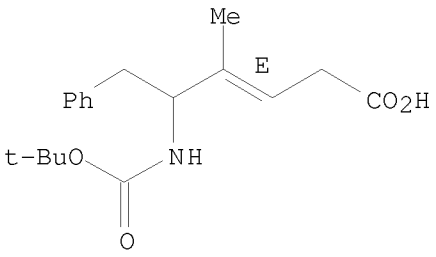
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-4-methyl-6-phenyl-, (E)- (9CI)
MF C18 H25 N O4

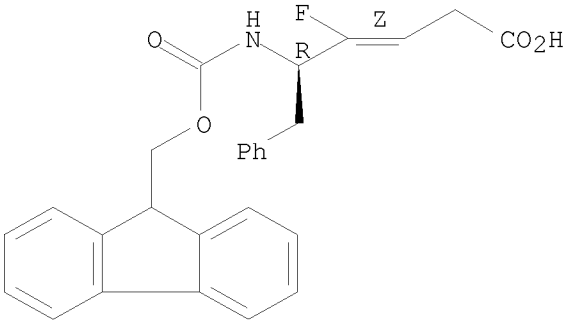
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-4-fluoro-6-phenyl-, [R-(Z)]- (9CI)
MF C27 H24 F N O4

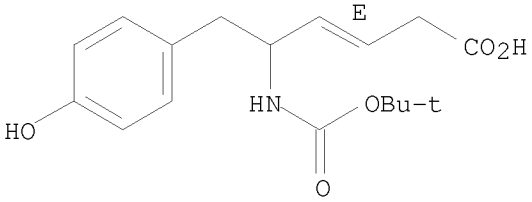
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-(4-hydroxyphenyl)-, (E)- (9CI)
MF C17 H23 N O5

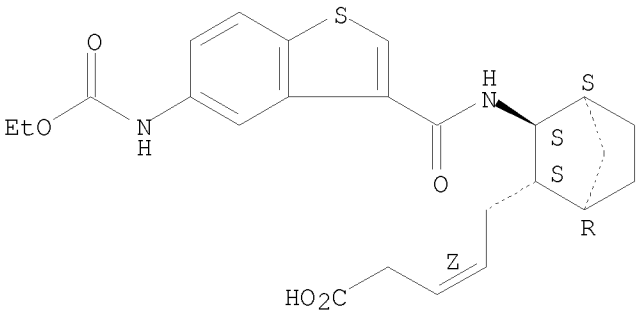
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Pentenoic acid, 5-[(1R,2S,3S,4S)-3-[[[5-[(ethoxycarbonyl)amino]benzo[b]thien-3-yl]carbonyl]amino]bicyclo[2.2.1]hept-2-yl]-, (3Z)-
MF C24 H28 N2 O5 S

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

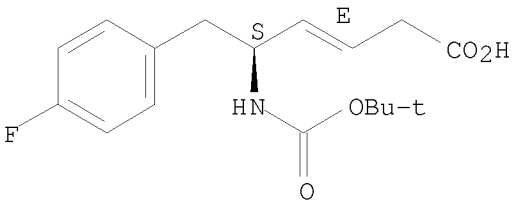


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

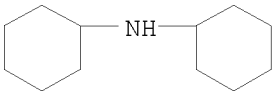
L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-(4-fluorophenyl)-, [S-(E)]-, compd. with N-cyclohexylcyclohexanamine (1:1) (9CI)
MF C17 H22 F N O4 . C12 H23 N

CM 1

Absolute stereochemistry.
Double bond geometry as shown.

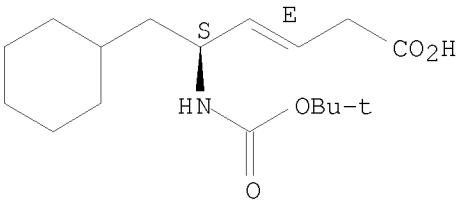


CM 2



L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 6-cyclohexyl-5-[[(1,1-dimethylethoxy)carbonyl]amino]-, [S-(E)]- (9CI)
MF C17 H29 N O4

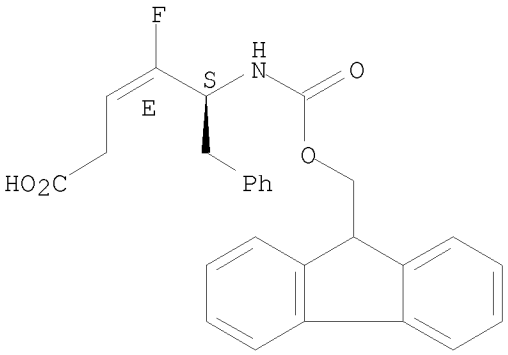
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-4-fluoro-6-phenyl-, (3E,5S)-
MF C27 H24 F N O4

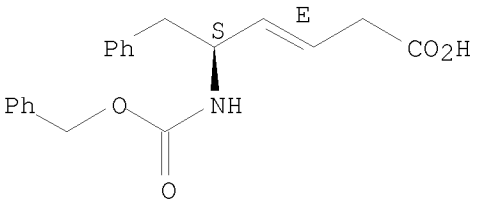
Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 6-phenyl-5-[[(phenylmethoxy)carbonyl]amino]-, [S-(E)]- (9CI)
MF C20 H21 N O4

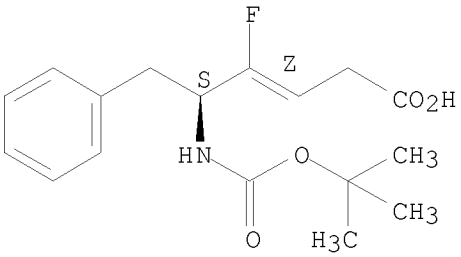
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-4-fluoro-6-phenyl-, [S-(Z)]- (9CI)
MF C17 H22 F N O4

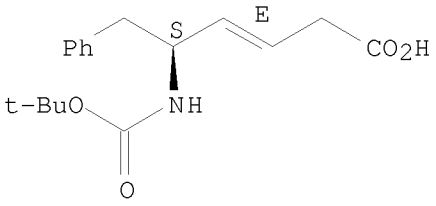
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-phenyl-, (3E,5S)-
MF C17 H23 N O4
CI COM

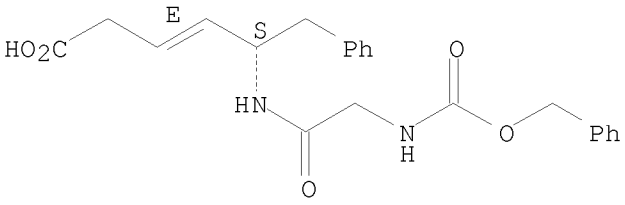
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 6-phenyl-5-[[2-[[(phenylmethoxy)carbonyl]amino]acetyl]amino]-, (3E,5S)-
MF C22 H24 N2 O5

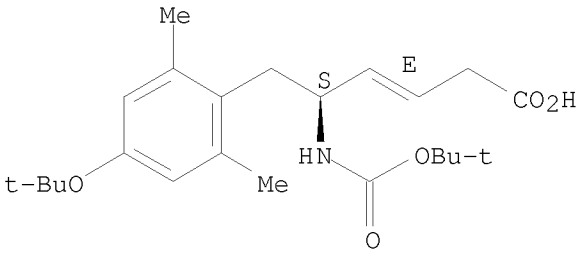
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-[4-(1,1-dimethylethoxy)-2,6-dimethylphenyl]-, [S-(E)]- (9CI)
MF C23 H35 N O5

Absolute stereochemistry.
Double bond geometry as shown.

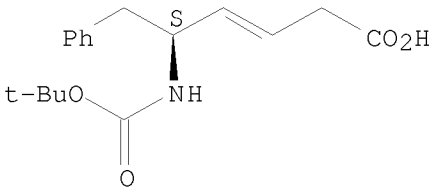


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN

IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-phenyl-, (S)-
(9CI)
MF C17 H23 N O4

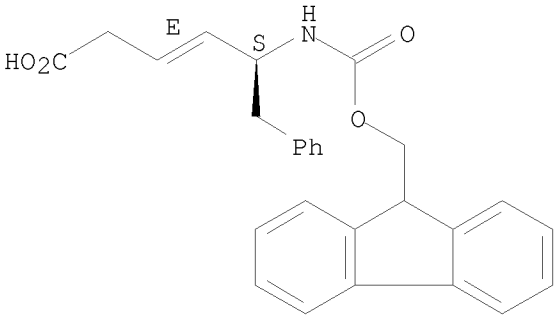
Absolute stereochemistry.
Double bond geometry unknown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-6-phenyl-,
(3E,5S)-
MF C27 H25 N O4

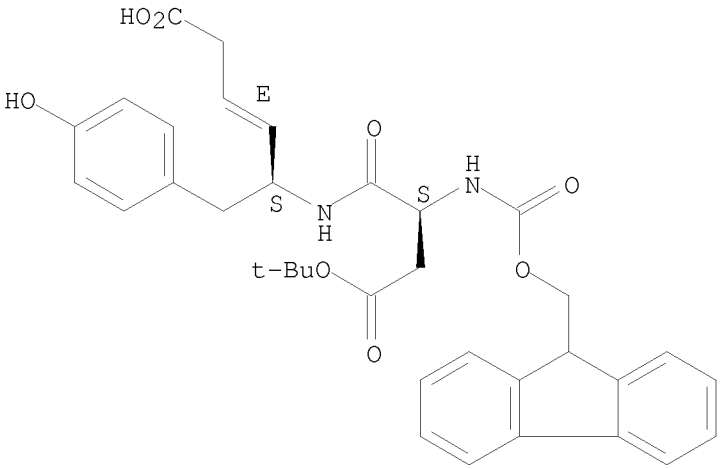
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(2S)-4-(1,1-dimethylethoxy)-2-[[(9H-fluoren-9-
ylmethoxy)carbonyl]amino]-1,4-dioxobutyl]amino]-6-(4-hydroxyphenyl)-,
(3E,5S)-
MF C35 H38 N2 O8

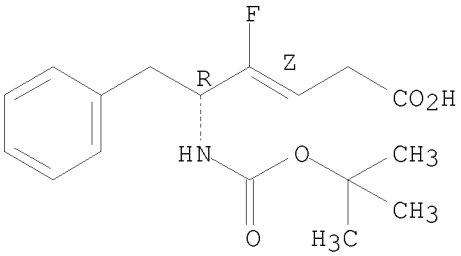
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-4-fluoro-6-phenyl-, [R-(Z)]- (9CI)
MF C17 H22 F N O4

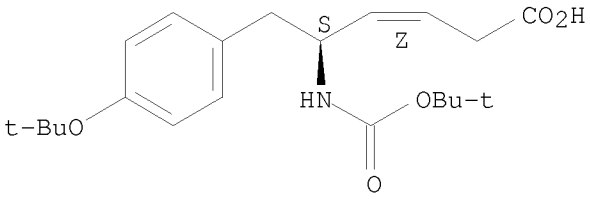
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-[4-(1,1-dimethylethoxy)phenyl]-, [S-(Z)]- (9CI)
MF C21 H31 N O5
CI COM

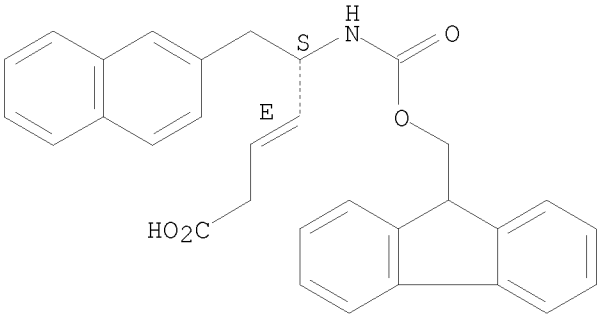
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-6-(2-naphthalenyl)-, (3E,5S)-
MF C31 H27 N O4

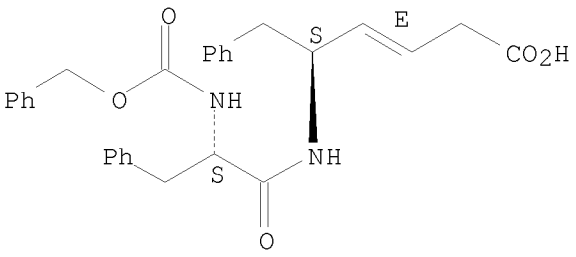
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[1-oxo-3-phenyl-2-[[(phenylmethoxy)carbonyl]amino]propyl]amino]-6-phenyl-, [S-[R*,R*-(E)]]-(9CI)
MF C29 H30 N2 O5

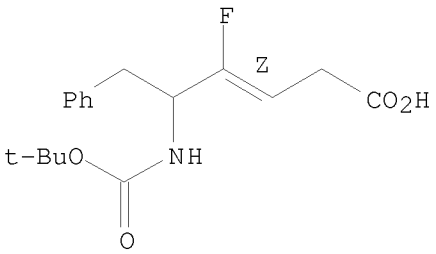
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-4-fluoro-6-phenyl-, (Z)- (9CI)
MF C17 H22 F N O4

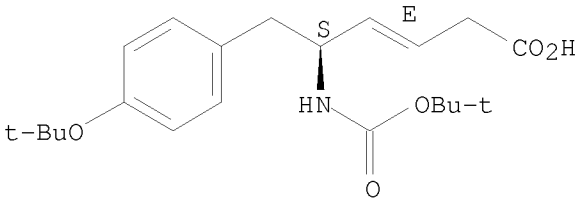
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 39 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN 3-Hexenoic acid, 5-[[(1,1-dimethylethoxy)carbonyl]amino]-6-[4-(1,1-dimethylethoxy)phenyl]-, [S-(E)]- (9CI)
MF C21 H31 N O5
CI COM

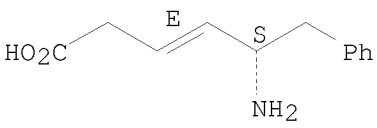
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

```
=> e 3-hexenoic acid, 5-amino-4-phenyl-/cn
E1            1     3-HEXENOIC ACID, 5-AMINO-4-FLUORO-6-PHENYL-, (3Z,5S)-, 2,2,2
                    -TRIFLUOROACETATE (1:1)/CN
E2            1     3-HEXENOIC ACID, 5-AMINO-4-FLUORO-6-PHENYL-, (3Z,5S)-, TRIFL
                    UOROACETATE/CN
E3            0 --> 3-HEXENOIC ACID, 5-AMINO-4-PHENYL-/CN
E4            1     3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, (3E,5S)-/CN
E5            1     3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, (3E,5S)-, 2,2,2-TRIFLUOR
                    OACETATE (1:1)/CN
E6            1     3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, (3E,5S)-, TRIFLUOROACETA
                    TE/CN
E7            1     3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, (3Z,5S)-, 2,2,2-TRIFLUOR
                    OACETATE (1:1)/CN
E8            1     3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, (S-(Z))-/CN
E9            1     3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, (S-(Z))-, TRIFLUOROACETA
                    TE/CN
E10           1     3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, HYDROCHLORIDE (1:1), (3E
                    ,5S)-/CN
E11           1     3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, HYDROCHLORIDE, (S-(E))-/
                    CN
E12           1     3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, METHYL ESTER, (S-(E))-/C
                    N

=> e4
L8            1 "3-HEXENOIC ACID, 5-AMINO-6-PHENYL-, (3E,5S)-"/CN

=> d l8

L8   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2010 ACS on STN
RN   521064-20-0  REGISTRY
ED   Entered STN:  27 May 2003
CN   3-Hexenoic acid, 5-amino-6-phenyl-, (3E,5S)-  (CA INDEX NAME)
FS   STEREOSEARCH
MF   C12 H15 N O2
CI   COM
SR   CA
LC   STN Files:   CA, CAPLUS

Absolute stereochemistry.  Rotation (+).
Double bond geometry as shown.
```




```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> file caplus
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
```

	ENTRY	SESSION
FULL ESTIMATED COST	204.04	237.73

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.55

FILE 'CAPLUS' ENTERED AT 09:57:46 ON 07 APR 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 7 Apr 2010 VOL 152 ISS 15
FILE LAST UPDATED: 6 Apr 2010 (20100406/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

CAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l8
L9 1 L8

=> d l9 ti fbib abs

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN
TI Design and synthesis of amide isosteres of Phe-Gly: potential peptidomimetic ligands for the intestinal oligopeptide transporter PepT1
AN 2002:692505 CAPLUS <<LOGINID::20100407>>
DN 138:354217
TI Design and synthesis of amide isosteres of Phe-Gly: potential peptidomimetic ligands for the intestinal oligopeptide transporter PepT1
AU Vabeno, Jon; Brisander, Magnus; Chen, Weiqing; Borchardt, Ronald T.; Luthman, Kristina
CS Department of Medicinal Chemistry, University of Tromso, Tromso, N-9037, Norway
SO Peptides: The Wave of the Future, Proceedings of the Second International and the Seventeenth American Peptide Symposium, San Diego, CA, United States, June 9-14, 2001 (2001), 610-611. Editor(s): Lebl, Michal; Houghten, Richard A. Publisher: American Peptide Society, San Diego, Calif.
CODEN: 69DBAL; ISBN: 0-9715560-0-8
DT Conference

LA English
AB A symposium report. The transport of di- and tripeptides across the intestinal epithelium is an active process mediated by the oligopeptide transporter PepT1. Synthetic Phe-Gly peptidomimetics, where amide bond was replaced by isosteric moieties, were used in preliminary transport studies on Caco-2 cells.
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.10	241.83

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.85	-3.40

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:58:45 ON 07 APR 2010